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LCD TV

SERVICE MANUAL

CHASSIS : LA61A

MODEL : 42LB1DR-UA / 42LB1DRA-UA

CAUTION

BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



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SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by \triangle in the Schematic Diagram and Replacement Parts List.

It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent Shock, Fire, or other Hazards.

Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer** should always be used during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and its components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.

If the exposed metallic part has a return path to the chassis, the measured resistance should be between $1M\Omega$ and $5.2M\Omega$.

When the exposed metal has no return path to the chassis the reading must be infinite.

An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.

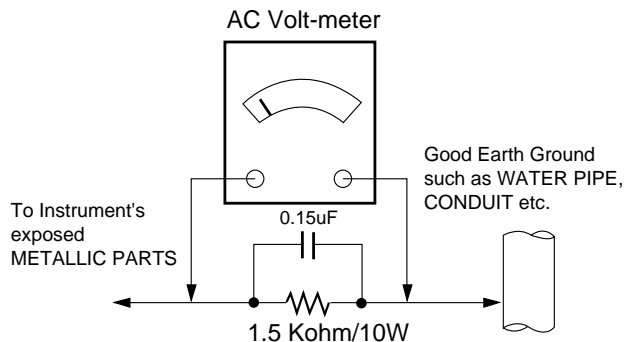
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.

Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which corresponds to 0.5mA.

In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the *SAFETY PRECAUTIONS* on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
 - a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
 - b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
 - c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.**CAUTION:** A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc".

3. Do not spray chemicals on or near this receiver or any of its assemblies.

4. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)

CAUTION: This is a flammable mixture.

Unless specified otherwise in this service manual, lubrication of contacts is not required.

5. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
6. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
7. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.

Always remove the test receiver ground lead last.

8. Use with this receiver only the test fixtures specified in this service manual.

CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called *Electrostatically Sensitive (ES) Devices*. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the

unit under test.

2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range or 500 °F to 600 °F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a mall wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
 - a. Allow the soldering iron tip to reach normal temperature. (500 °F to 600 °F)
 - b. Heat the component lead until the solder melts.
 - c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
CAUTION: Work quickly to avoid overheating the circuitboard printed foil.
6. Use the following soldering technique.
 - a. Allow the soldering iron tip to reach a normal temperature (500 °F to 600 °F)
 - b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.
 - c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
CAUTION: Work quickly to avoid overheating the circuit board printed foil.
- d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush.
(It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor

Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device

Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heat sink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor

Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.

CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife.
Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side.
Carefully crimp and solder the connections.
CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

SPECIFICATION

NOTE : Specifications and others are subject to change without notice for improvement.

1.General Specification(TV)

| No | Item | Specification | Remark |
|-----|---------------------------------|--|--|
| 1. | Video input applicable system | PAL-D/K, B/G, I, NTSC-M, SECAM NTSC 4.43 | |
| 2. | Receiveable Broadcasting System | 1) PAL/SECAM BG 2) PAL/SECAM DK 3) PAL I/I 4) SECAM L/L' 5) NTSC M | (ZE/TE) EU/Non-EU (PAL Market) |
| | | 6) PAL-N/M 7) NTSC M | 6),7) South America Market 7) Except South America NTSC Market (ME) |
| 3. | RF Input Channel | VHF : E2 ~ E12 UHF : E21 ~ E69 CATV : S1 ~ S20 HYPER : S21~ S47 | PAL |
| | | L/L' : B, C, D | FRANCE |
| | | VHF : 2~13 UHF : 14~69 CATV : 1~125 | NTSC |
| | | VHF Low : 1 ~ M10 VHF High : 4~S22 UHF : S23~62 | JAPAN |
| 4. | Input Voltage | AC 100 ~ 240 V/50Hz, 60Hz | |
| 5. | Market | Worldwide | |
| 6. | Picture Size | 1067.308mm | 42.02inch(42LB1R) |
| 7. | Tuning System | FVS 100 program | PAL, 200 PR.(Option) |
| | | FS | NTSC |
| 8. | Operating Environment | 1) Temp : 0 ~ 40 deg 2) Humidity : 10~90 % | |
| 9. | Storage Environment | 3) Temp : -20 ~ 50 deg 4) Humidity : 10~90 % | |
| 10. | Display | LCD Module | LPL |

2. General Specification

| No | Item | Specification | | | Remark |
|----|---------------------------------|--|--|-------------------------|-------------------------|
| 1 | Panel | 42" TFT WXGA LCD | | | |
| 2 | Frequency range | H : 31 ~ 61Khz V : 56 ~ 75Hz | | | PC Input |
| 3 | Control Function | 1) Contrast/Brightness 2) H-Position / V-Position 3) Tracking : Clock / Phase 4) Auto Configure 5) Reset | | | |
| 4 | Component Jack | 1 : Y 3 : Pb 5 : Pr 7 : Line1 Ready 9 : LINE2 11: LINE3 13: Line3 Ready | | | Middle east / NTSC Area |
| | D4 Jack(525i, 525p, 750p,1125i) | 2 : Y GND 4 : Pb GND 6 : Pr GND 8 : LINE1 10:Line2 Ready 12:SWITCH GND 14: SWITCH | | | JAPAN Only |
| 5 | | H/V-Sync | Video | Power consumption | LED |
| | Power ON | - | - | ≤ 240W | |
| | Stand by | | | ≤ 3.0W | Red |
| | DPMS Mode | ON/OFF | OFF | ≤ 30W | Green |
| 6 | LCD Module | | | | * |
| | | Outline Dimension | 42" | 1006 x 610 x 56(mm) | (H)x(V)x(D) |
| | | Pixel Pitch | 42" | 0.227 x 0.681 x RGB(mm) | |
| | | Pixel Format | 1366 horiz. By 768 vert. Pixels RGB strip arrangement | | |
| | | Coating | Hard coating(3H), Anti-glare treatment of the front polarizer, | | |
| | | Back Light | 42" | 20EEFL | |

3.Optical Feature(LCD Module)

| No. | Item | Specification | | | | Remark |
|-----|------------------------|---------------------------|----------------|----------|-------|--------------------|
| | | | Min | Typ | Max | |
| 1 | Viewing Angle<CR ≥ 10> | R/L, U/D | | 176, 176 | | |
| 2 | Luminance | Luminance(cd/㎡) | | 500 | | |
| | | Variation | | | 1.3 | Typical |
| 3 | Contrast Ratio | CR | 300 | 400 | | MAX/MIN |
| | | CR _b (With AI) | 700 | 1000 | | ALL white/All back |
| 4 | CIE Color Coordinates | WHITE | W _x | Typ. | 0.285 | LPL |
| | | | W _y | Typ. | 0.293 | |
| | | RED | R | Typ. | 0.640 | |
| | | | R _y | Typ. | 0.341 | |
| | | GREEN | G _x | Typ. | 0.287 | |
| | | | G _y | Typ. | 0.610 | |
| | | BLUE | B _x | Typ. | 0.146 | |
| | | | B _y | Typ. | 0.069 | |

4.Component Video Input (Y, P_B, P_R)

| No | Specification | | | | Proposed |
|-----|---------------|-------------|------------|---------------------------|------------|
| | Resolution | H-freq(kHz) | V-freq(Hz) | | |
| 1. | 640x480 | 15.73 | 60 | SDTV, DVD 480i | ZE, TE, ME |
| 2. | 640x480 | 15.63 | 59.94 | SDTV, DVD 480i | ZE, TE, ME |
| 3. | 720x480 | 31.47 | 59.94 | EDTV 480p | TE, ME |
| 4. | 720x576 | 15.625 | 50.00 | SDTV, DVD 625 Line | ZE, TE, ME |
| 5. | 720x576 | 31.25 | 50.00 | HDTV 576p | TE, ME |
| 6. | 1280x720 | 45.00 | 60.00 | HDTV 720p | TE, ME |
| 7. | 1280x720 | 44.96 | 59.94 | HDTV 720p | TE, ME |
| 8. | 1920x1080 | 31.25 | 50.00 | HDTV 1080i 50Hz (AU Ver.) | TE, ME |
| 9. | 1920x1080 | 33.75 | 60.00 | HDTV 1080i 60Hz (ATSC) | TE, ME |
| 10. | 1920x1080 | 33.72 | 59.94 | HDTV 1080i 59.94Hz | TE, ME |

5. RGB PC INPUT Mode Table

| No | Resolution | H-freq(kHz) | V-freq.(Hz) | Pixel clock(MHz) | Proposed |
|----|-------------------------|-------------|-------------|------------------|------------|
| | Analog RGB, Digital RGB | | | | |
| 1 | 720x400 | 31.468 | 70.8 | 28.321 | |
| 2 | 640x480 | 31.469 | 59.94 | 25.17 | VESA |
| | | 37.684 | 75.00 | 31.5 | VESA |
| 3 | 800x600 | 37.879 | 60.31 | 40.00 | VESA |
| | | 46.875 | 75 | 49.5 | VESA |
| 4 | 832x624 | 49.725 | 74.55 | 57.283 | |
| 5 | 1024x768 | 48.363 | 60.00 | 65.00 | VESA(XGA) |
| | | 56.47 | 70.00 | 75.00 | VESA(XGA) |
| | | 60.123 | 75.029 | 78.75 | VESA(XGA) |
| 6 | 1280x768 | 47.776 | 59.870 | 79.50 | VESA(WXGA) |
| 7 | 1360x768 | 47.720 | 59.799 | 84.75 | VESA(WXGA) |
| 8 | 1366x768 | 47.720 | 59.799 | 84.75 | Supported |

6. RGB DTV INPUT Mode Table

| No | Resolution | H-freq(kHz) | V-freq.(Hz) | Pixel clock(MHz) | Proposed |
|----|------------|-------------|-------------|------------------|----------|
| 1 | 720x576 | 31.25 | 50.00 | SDTV 576p 50Hz | |
| 2 | 720x480 | 31.47 | 59.94 | SDTV 480p 60Hz | |
| 3 | 1280x720 | 45.00 | 50.00 | HDTV 720p 50Hz | HDCP |
| 4 | 1280x720 | 44.96 | 59.94 | HDTV 720p 60Hz | HDCP |
| 5 | 1920x1080 | 28.13 | 50.00 | HDTV 1080i 50Hz | HDCP |
| 6 | 1920x1080 | 33.72 | 59.94 | HDTV 1080i 60Hz | HDCP |

7. HDMI PC INPUT Mode Table

| No | Resolution | H-freq(kHz) | V-freq.(Hz) | Pixel clock(MHz) | Proposed |
|----|-------------------------|---------------------------|--------------------------|-------------------------|-------------------------------------|
| | Analog RGB, Digital RGB | | | | |
| 1 | 720x400 | 31.468 | 70.8 | 28.321 | |
| 2 | 640x480 | 31.469 37.684 | 59.94 75.00 | 25.17 31.5 | VESA VESA |
| 3 | 800x600 | 37.879 46.875 | 60.31 75 | 40.00 49.5 | VESA VESA |
| 4 | 832x624 | 49.725 | 74.55 | 57.283 | |
| 5 | 1024x768 | 48.363 56.47 60.123 | 60.00 70.00 75.029 | 65.00 75.00 78.75 | VESA(XGA) VESA(XGA) VESA(XGA) |
| 6 | 1280x768 | 47.776 | 59.870 | 79.50 | VESA(WXGA) |
| 7 | 1360x768 | 47.720 | 59.799 | 84.75 | VESA(WXGA) |
| 8 | 1366x768 | 47.720 | 59.799 | 84.75 | Supported |
| 9 | 1920x1080 | 33.75 | 60.00 | 86.375 | HDCP DVI Digital 1080i |
| 10 | 1280x720 | 45.00 | 60.00 | 74.375 | HDCP DVI Digital 720p |

8. HDMI DTV INPUT Mode Table

| No | Resolution | H-freq(kHz) | V-freq.(Hz) | Pixel clock(MHz) | Proposed |
|----|------------|-------------|-------------|------------------|----------|
| 1 | 720x576 | 31.25 | 50.00 | SDTV 576p 50Hz | |
| 2 | 720x480 | 31.47 | 59.94 | SDTV 480p 60Hz | |
| 3 | 1280x720 | 45.00 | 50.00 | HDTV 720p 50Hz | HDCP |
| 4 | 1280x720 | 44.96 | 59.94 | HDTV 720p 60Hz | HDCP |
| 5 | 1920x1080 | 28.13 | 50.00 | HDTV 1080i 50Hz | HDCP |
| 6 | 1920x1080 | 33.72 | 59.94 | HDTV 1080i 60Hz | HDCP |

9. Mechanical specification

| No, | Item | Content | | | Remark |
|-----|------------------|----------------|----------|-----------|-----------|
| 1 | Product Dimenson | | Width(W) | Length(D) | Height(H) |
| | | Before Packing | 1175 | 300 | 768 |
| | | After Packing | 1282 | 386 | 920 |
| 2 | Product Weight | Only SET | 43.4Kg | | |
| | | With Box | 48.2kg | | |

10. Mechanical specification

<Table 1> Scart Arrangement 1.(Full Scart)

| Pin | Signal | Signal Level | Impedance |
|-----|--------------------------------|--|-----------------|
| 1 | Audio Output B (right) | 0.5 Vrms | < 1 K Ω |
| 2 | Audio Input B (right) | 0.5 Vrms | > 10 K Ω |
| 3 | Audio Output A (left) | 0.5 Vrms | < 1 K Ω |
| 4 | Ground (audio) | - | - |
| 5 | Ground (blue) | - | - |
| 6 | Audio input A (left) | 0.5 Vrms | > 10 K Ω |
| 7 | Blue input | 0.7 V | 75 Ω |
| 8 | Function Select (AV control) | High (9.5 - 12V) - AV Mode Mid (5 - 8V) - Wide Screen Low (0 - 2V) - TV Mode | > 10 K Ω |
| 9 | Ground (Green) | - | - |
| 10 | Comms Data 2 | | |
| 11 | Green input | 0.7 V | 75 Ω |
| 12 | Comms Data 1 | | |
| 13 | Ground (Red) | - | - |
| 14 | Ground (Blanking) | - | - |
| 15 | Red input | 0.7 V | 75 Ω |
| 16 | RGB Switching Control | High (1 - 3V) - RGB Low (0 - 0.4V) - Composite | 75 Ω |
| 17 | Ground (Video input & Output) | - | - |
| 18 | Ground (RGB Switching Control) | - | - |
| 19 | Video output (Composite) | 1V including sync | 75 Ω |
| 20 | Video input (Composite) | 1V including sync | 75 Ω |
| 21 | Common ground (Shield) | - | - |

<Table 2> Scart Arrangement 2.(Half Scart)

| Pin | Signal | Signal Level | Impedance |
|-----|-------------------------------|--|-----------------|
| 1 | Audio Output B (right) | 0.5 Vrms | < 1 K Ω |
| 2 | Audio Input B (right) | 0.5 Vrms | > 10 K Ω |
| 3 | Audio Output A (left) | 0.5 Vrms | < 1 K Ω |
| 4 | Ground (audio) | - | - |
| 5 | Ground (blue) | - | - |
| 6 | Audio input A (left) | 0.5 Vrms | > 10 K Ω |
| 7 | - | - | - |
| 8 | Function Select (AV control) | High (9.5 - 12V) - AV Mode Mid (5 - 8V) - Wide Screen Low (0 - 2V) - TV Mode | > 10 K Ω |
| 9 | Ground (Green) | - | - |
| 10 | Comms Data 2 | | |
| 11 | - | - | - |
| 12 | Comms Data 1 | | |
| 13 | Ground (Red) | - | - |
| 14 | Ground (Blanking) | - | - |
| 15 | Red input | | |
| 16 | - | - | - |
| 17 | Ground (Video input & Output) | - | - |
| 18 | - | - | - |
| 19 | Video output (Composite) | 1V including sync | 75 Ω |
| 20 | Video input (Composite) | 1V including sync | 75 Ω |
| 21 | Common ground (Shield) | - | - |

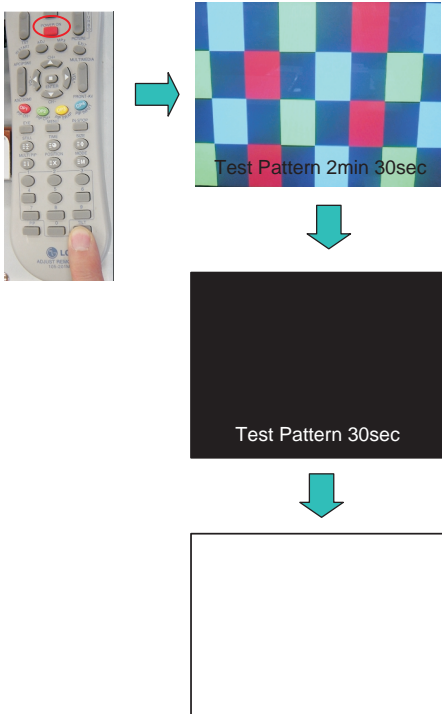
ADJUSTMENT INSTRUCTION

1. Application Object

These instructions are applied to all of the PDP TV, PA61A.

2. Notes

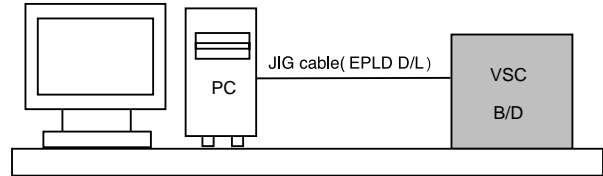
- (1) Because this is not a hot chassis, it is not necessary to use an isolation transformer. However, the use of isolation transformer will help protect test equipment.
 - (2) Adjustments must be done in the correct order.
 - (3) The adjustments must be performed in the circumstance of $25\pm5^{\circ}\text{C}$ of temperature and $65\pm10\%$ of relative humidity if there is no specific designation.
 - (4) The input voltage of the receiver must be kept 110V, 60Hz when adjusting.
 - (5) The receiver must be operational for about 15 minutes prior to the adjustments.
- o Preliminary action is applied to the test for afterimage discharge detection, and 100% FULL WHITE PATTERN must be operated automatically.
 - o Test for afterimage discharge detection
 - 1) After pressing Power Only key(only operating by pressing Power Only key), Full Test Pattern(2 min 30sec) --> Full Black Pattern(30sec) --> After this state, Full White Pattern is displayed.
(but you must preset the program for Full White State when you press the Main Power Off/On)
 - 2) Pattern Mode is deselected by pressing CH +/-, Exit Key.



[Set is activated HEAT-RUN without signal generator in this mode.

If you turn on a still screen more than 20 minutes (Especially Digital pattern(13 CH), Cross Hatch Pattern), an afterimage may occur in the black level part of the screen.

3. EPLD Download

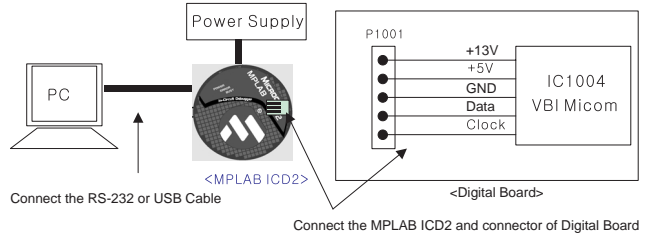


- (1) Test Equipment: PC, Jig for download
- (2) Connect the power of VSC B/D.
- (3) Execute download program(iMPACK) of PC.
- (4) After executing the hot key on the Programmer, click icon
- (5) End after confirming

4. Gemstar VBI Micom Download

4-1. Preparation for Adjustment

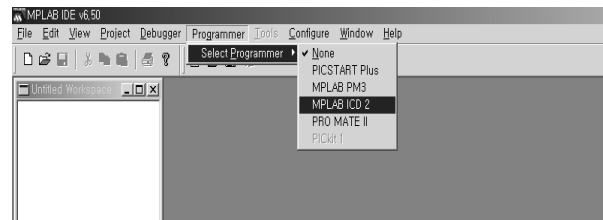
- (1) As shown below, connect the MPLAB ICD2 equipment, PC and Digital Connector.
- (2) Turn on the MPLAB ICD2 POWER Supply.



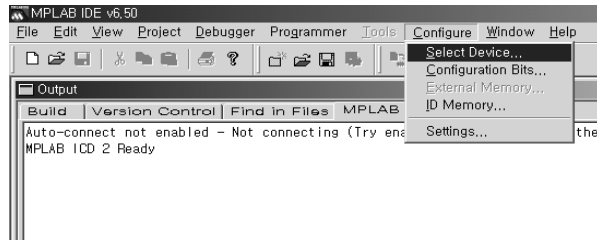
- (3) After turn on the PC and MONITOR, select the 'MPLAB IDE' from the screen.

4-2. Adjustment Sequence

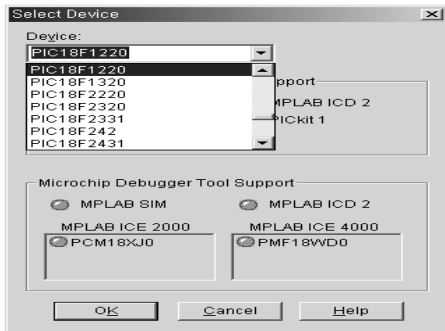
- (1) When the program is executed, select the MPLAB ICD2 from Programmer -> Select Programmer .



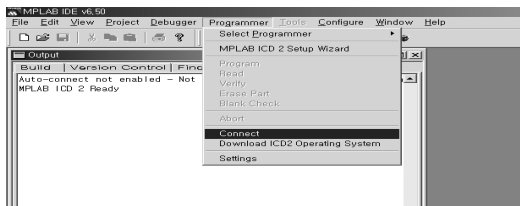
(2) Select "Configure -> Select Device".



(3) When the "Select Device" window appears, select the PIC18F1220 from "Device" and press OK.

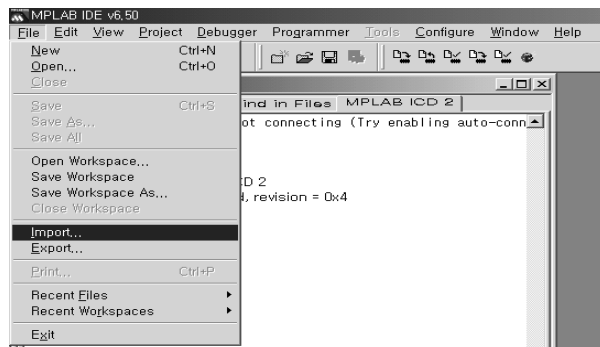


(4) Select "Programmer -> Connect".

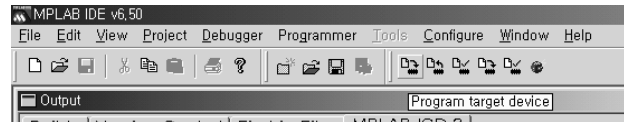
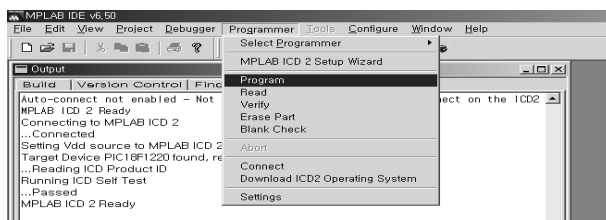


When connected with the Micom, the display message on the Output window appears as below.

(5) Select "File -> Import", select the Work HEX file and open.



(6) Select "Programmer -> Program".



(7) Download is executed and about 5 seconds later, the "Programming succeeded" message is displayed on the Output window and the Download process is ended.

(8) The execution of process (6) is convenient when using the short-cut icon.

5. POD Certificate Download

5-1. Preparation for Adjustment

- (1) Connect the MEMORY JIG and PC.
- (2) Turn on the JIG MAIN POWER SWITCH.
- (3) After turn on the PC and MONITOR, execute the 'Certificate Downloader v1.4' from the screen.

5-2. Adjustment Sequence

- (1) After open the 'Certificate Downloader v1.4', enter Connection set and set the as same below.
The port settings are determined by each PC's setup.

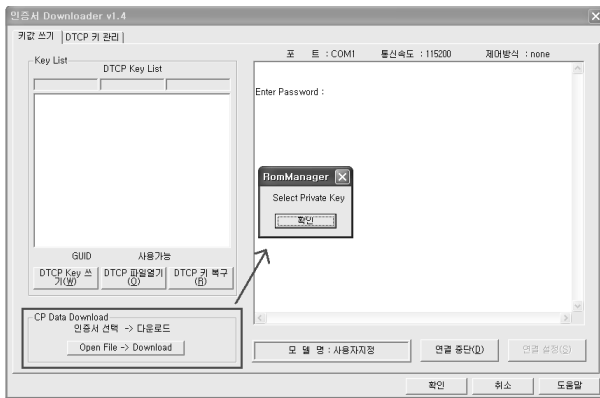


(2) Select 'Connection' and SET connected to RS-232C.

(3) After clicking "Enter", confirm that "Enter Password:" appears.



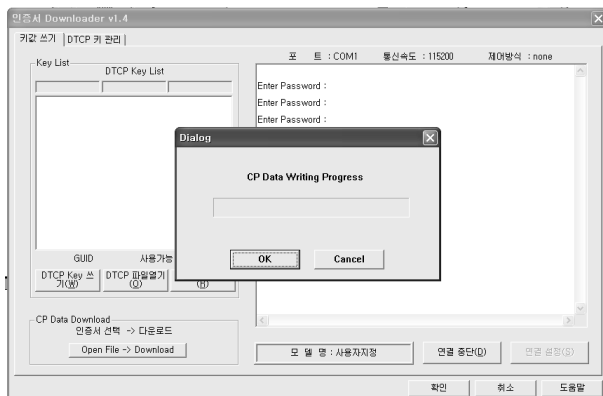
- (4) Click the "OpenFile - Download" button from CP Data Download, 'select the Private Key' appears and click ENTER.



- (5) After clicking ENTER, the 'opens Private key' window appears and select the Private key applied to the SET. The Private Key file name is on the Label of the Digital Board.



- (6) When the Dialog window appears, click OK and the write work will begin.



- (7) When completed, click 'CP Data Download: OK'

[When 'CP Data Download: OK' does not appear, certificate has not Download correctly.
SET is rebooted and certificate Download work must be repeated.

6. Gemstar Operation Confirmation

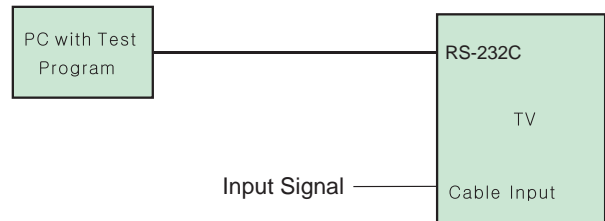
6-1. Required Test Equipment

- (1) PC with Factory Test Program
- (2) VBI Inserter (Norpak TES3) - Guide Data Discharge Equipment

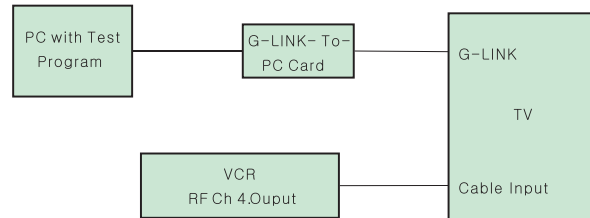
[In case of without the VBI Inserter(TES3), a VCR may be used.

6-2. Preparation for Adjustments

- (1) In case of with VBI Inserter(TES3): Signal uses Cable input and set as below.



- (2) In case of without VBI Inserter(TES3): VCR uses Cable input and set as below.



[Factory Test S/W must be set to "GlinkTo PC Card" ON.

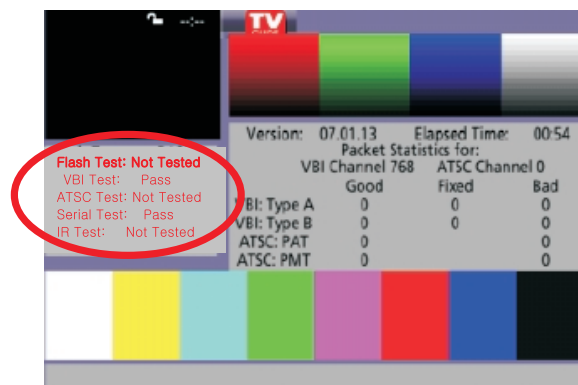
6-3. Adjustment Confirmation Work

- (1) Turn on the TV and run Factory Test Program of PC.

[Program only needs to run once, regardless of set quantity.

- (2) Enter the EZ adjust menu by pressing Adjust on the Service Remote Control (S R/C).
- (3) Go to number 1 Gemstar and press Enter.
- (4) TV set screen will appear as shown.

- (5) Confirm that VBI Test and Serial Test PASS from the screen.



7. Cable Operation Confirmation

- (1) Confirm that the Cable Card is inserted in the slot.
- (2) Enter the EZ adjust menu by pressing the Adjust key on the Service Remote Control (S R/C).
- (3) Go to number 2 Cable Check and press the Right key (G) .
- (4) Confirm items below.

| Name | Normal | Defective |
|--------------|-------------------------|------------------------------|
| Descrambler | OK | Not OK |
| Check | | |
| CableCARD | CableCARD™ is inserted. | CableCARD™ is removed. |
| OOB Path | OK(Lock) | Not OK(Unlock) |
| FDC_SNR | OK(20dB above) | Not OK(20dB under) |
| Video Signal | Normal Screen | Black Screen (No Picture) |

Cable Check

| | |
|----------------------|-------------------------|
| 1. Descrambler Check | OK |
| 2. CableCARD | CableCARD™ is inserted. |
| 3. OOB Path | OK (Lock) |
| 4. FDC_SNR | OK (23 dB) |

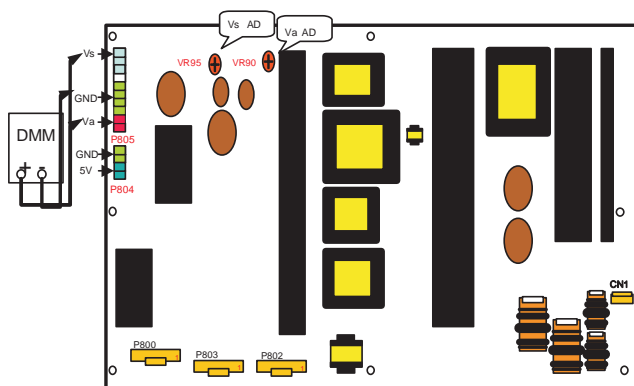
Each PCB Assy must be checked by Check JIG Set before assembly. (Especially, be careful Power PCB Assy which can cause Damage to the PDP Module.)

8. POWER PCB Assy Voltage Adjustment (Va, Vs Voltage Adjustment)

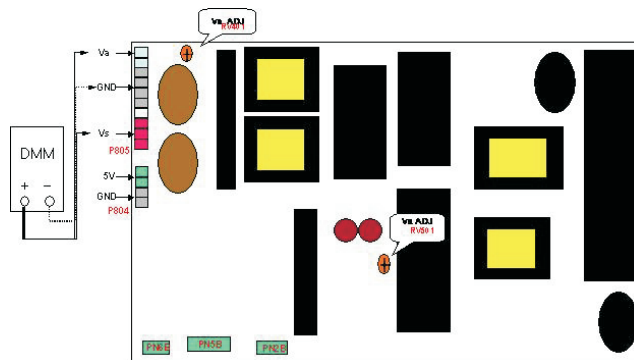
8-1. Test Equipment : D.M.M 1EA

8-2. Connection Diagram for Measuring

Refer to Fig 1.



<Fig. 1-1> Connection Diagram of Power Adjustment for Measuring (Power Board): 50"



<Fig. 1-2> Connection Diagram of Power Adjustment for Measuring (Power Board): 60"

9. EDID(The Extended Display Identification Data)/DDC (Display Data Channel) Download

This is the function that enables "Plug and Play".

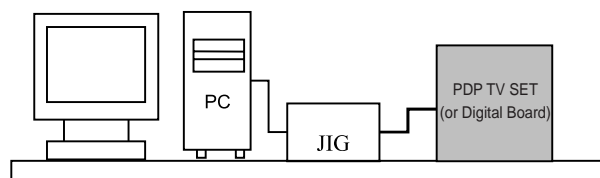
9-1. HDMI EDID Data Input

(1) Required Test Equipment

- 1) PC, Jig for adjusting DDC. (PC serial to D-sub Connection equipment)
- 2) S/W for writing DDC(EDID data write & read)
- 3) D-Sub cable
- 4) Jig for HDMI Cable connection

(2) Preparation for Adjustments & Setting of Device

- 1) Set devices as below and turn on the PC and JIG.
- 2) Open S/W for writing DDC (EDID data write & read). (operated in DOS mode)



<Fig. 2>

10. ADC-Set Adjustment

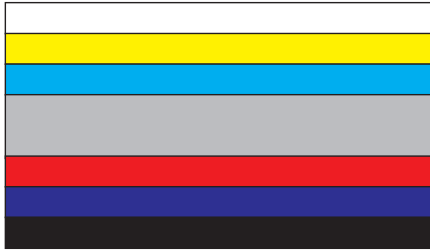
10-1. Synopsis

ADC-Set adjustment to set the black level and the Gain to optimum.

10-2. Test Equipment

Service R/C, 801GF(802B, 802F, 802R) or MSPG925FA Pattern Generator

(720P The Horizontal 100% Color Bar Pattern output will be possible and the output level will accurately have to be revised with $0.7 \pm 0.1Vp-p$)



<Fig. 3> Adjustment Pattern : 480i/1080i 60Hz HozTV31 Bar Pattern

10-3. Adjustment

(1) ADC 480i Component1 Adjustment

Check the connection Component1 to the Test Equipment

- (1) Select Component1 as the input with 100% Horizontal Color Bar Pattern(HozTV31Bar) in 480i Mode and select 'Normal' in screen.
- (2) After receiving signal for at least 1 second, press the ADJ Key on the Service R/C to enter the 'Ez - Adjust' and select the '4. ADC 480i Comp1'. Pressing the Enter Key to adjust with automatic movement.
- (3) When the adjustment is over, 'ADC Component1 Success' is displayed.
- (4) If the adjustment has errors, 'ADC Configuration Error' is displayed. And error message('Component Not Connection' or 'Change Format to 480i' or 'Check Pattern of device') is displayed for 1 second.

(2) ADC 1080i Component2/RGB Adjustment

Check the connection Component2, RGB to the Test Equipment

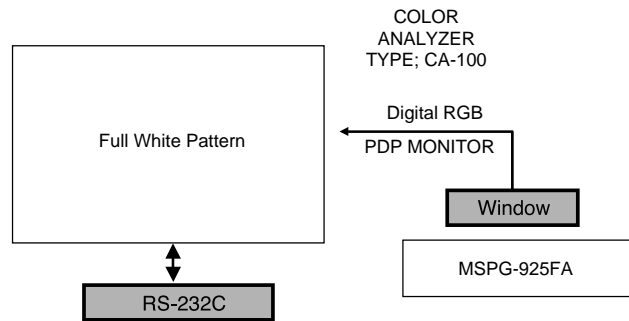
- (1) Select Component2 as the input with 100% Horizontal Color Bar Pattern(HozTV31Bar) in 1080i Mode and select 'Normal' in screen.
- (2) After receiving signal for at least 1 second, press the ADJ Key on the Service R/C to enter the 'Ez - Adjust' and select the '5. ADC 480p Comp2/RGB'. Pressing the Enter Key to adjust with automatic movement.
- (3) When the adjustment is over, 'ADC Component2 Success' is displayed. If the adjustment has errors, 'ADC Configuration Error' is displayed.
- (4) After the Component2 adjustment is over, convert the RGB-DTV Mode and display Pattern.

When the adjustment is over, 'ADC RGB_DTV Success' is displayed.

- (5) Readjust after confirming the case Pattern or adjustment condition where the adjustment errors. Error message is 'Component Not Connection' or 'Change Format to 480i' or 'Check Pattern of device'.
- (6) After adjustment is complete, exit the adjustment mode by pressing the ADJ KEY.

11. Adjustment of White Balance

11-1. Connection Diagram of Equipment for Measuring (Automatic Adjustment)



<Fig. 4> Connection Diagram of Automatic Adjustment

[RS-232C Command (Automatic Adjustment)

| | RS-232C COMMAND [CMD ID DATA] | | | Min | CENTER (DEFAULT) | | | Max |
|--------|----------------------------------|-----|------|-----|---------------------|-----|------|-----|
| | Cool | Mid | Warm | | Cool | Mid | Warm | |
| R Gain | Jg | Ja | Jd | 00 | 184 | 161 | 192 | 255 |
| G Gain | Jh | Jb | Je | 00 | 187 | 183 | 159 | 255 |
| B Gain | Ji | Jc | Jf | 00 | 192 | 192 | 95 | 255 |
| R Cut | | | | | 64 | 64 | 64 | 127 |
| G Cut | | | | | 64 | 64 | 64 | 127 |
| B Cut | | | | | 64 | 64 | 64 | 127 |

11-2. Adjustment of White Balance

- o Operate the Zero-calibration of the CA-210, then attach sensor to PDP module surface when you adjust.
- o Manual adjustment is also possible by the following sequence.

- (1) HEAT RUN at least 30 minutes by pressing the Power only Key on the Service Remote Control and adjust.
- (2) After attaching sensor to center of screen, select 'White-Balance' of 'Ez - Adjust' by pressing the ADJ KEY on the Service R/C. Then enter adjustment mode by pressing the Right KEY (G). This time white pattern is displayed.
- (3) Adjust the Hight Light using R Gain/G Gain(Cool).
Adjust the Hight Light using G Gain/R Gain(Medium).
Adjust the Hight Light using G Gain/B Gain(Warm).
(R Gain: 192, B Gain 192, R-Cut/G-Cut/B-Cut: 64 Fix.)

- (4) Adjust using Volume +/- KEY.
- (5) After adjustment is complete, exit the adjustment mode by pressing the ADJ KEY.

High Level: 216gray

[Cool]

X; 0.278±0.015 Y; 0.279±0.015
Color temperature: 11000°K±1000°K
dUV: -3dUV

[Medium]

X; 0.287±0.015 Y; 0.289±0.015
Color temperature: 9300°K±1000°K
dUV: -3dUV

[Warm]

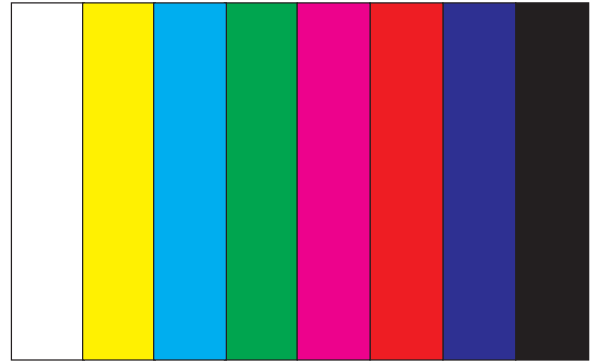
X; 0.314±0.015 Y; 0.318±0.015
Color temperature: 6500°K±1000°K
dUV: -3dUV

12. Video(uPD)-Set

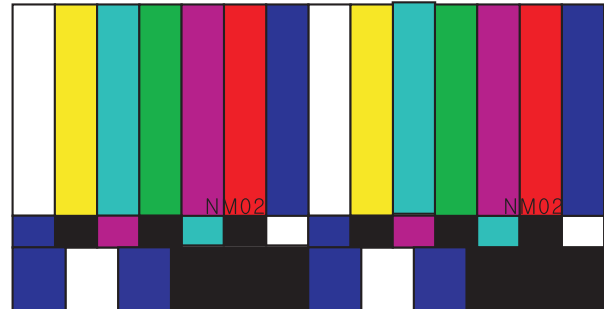
Adjustment for reduce color difference Main/Sub screen of RF or Video signal.

12-1. Adjustment

- (1) Connection the Video Signal Generator(Master) to the TV AV Input terminal.
After input pattern(Model: 201(NTSC-M), Pattern: 32(100% color Bar), pressing the 'Rev' button and appear as below figure



- (2) After receive signal, confirm the signal receiving.
And Enter the 'EZ-ADJUST' by pressing the ADJ Key on the Service R/C.
Select '5. Video(UPD)-Set' and enter the adjustment mode by pressing the right key (G).
- (3) When enter the adjustment mode, displayed the TV 2CH SPLIT Screen automatic at picture and appear as below figure.



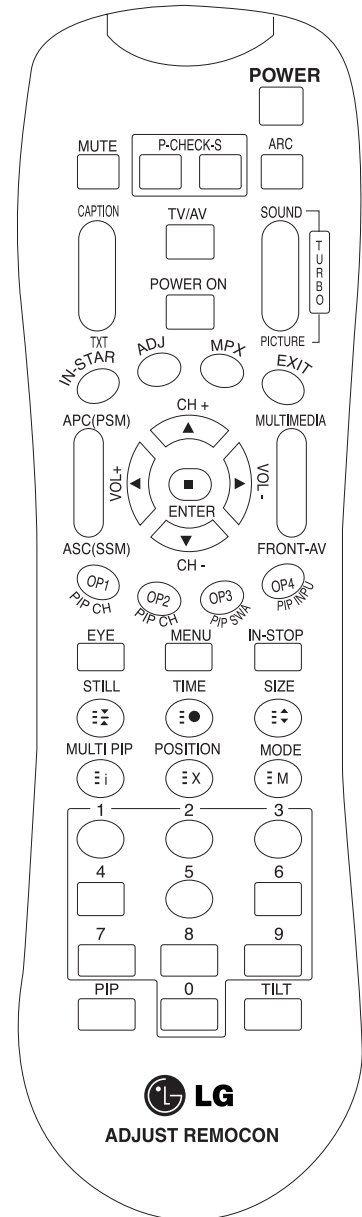
- (4) When the automatic adjustment is over, 'RF Configuration Success' is displayed. If the adjustment has errors, 'Video Configuration Error' is displayed.



- (5) After the RF signal automatic adjustment is over, convert the Video Mode as below figure and adjust with automatic movement the Video Mode.
When the automatic adjustment is over, 'Video Configuration Success' is displayed. If the adjustment has errors, 'Video Configuration Error' is displayed.

SVC REMOCON

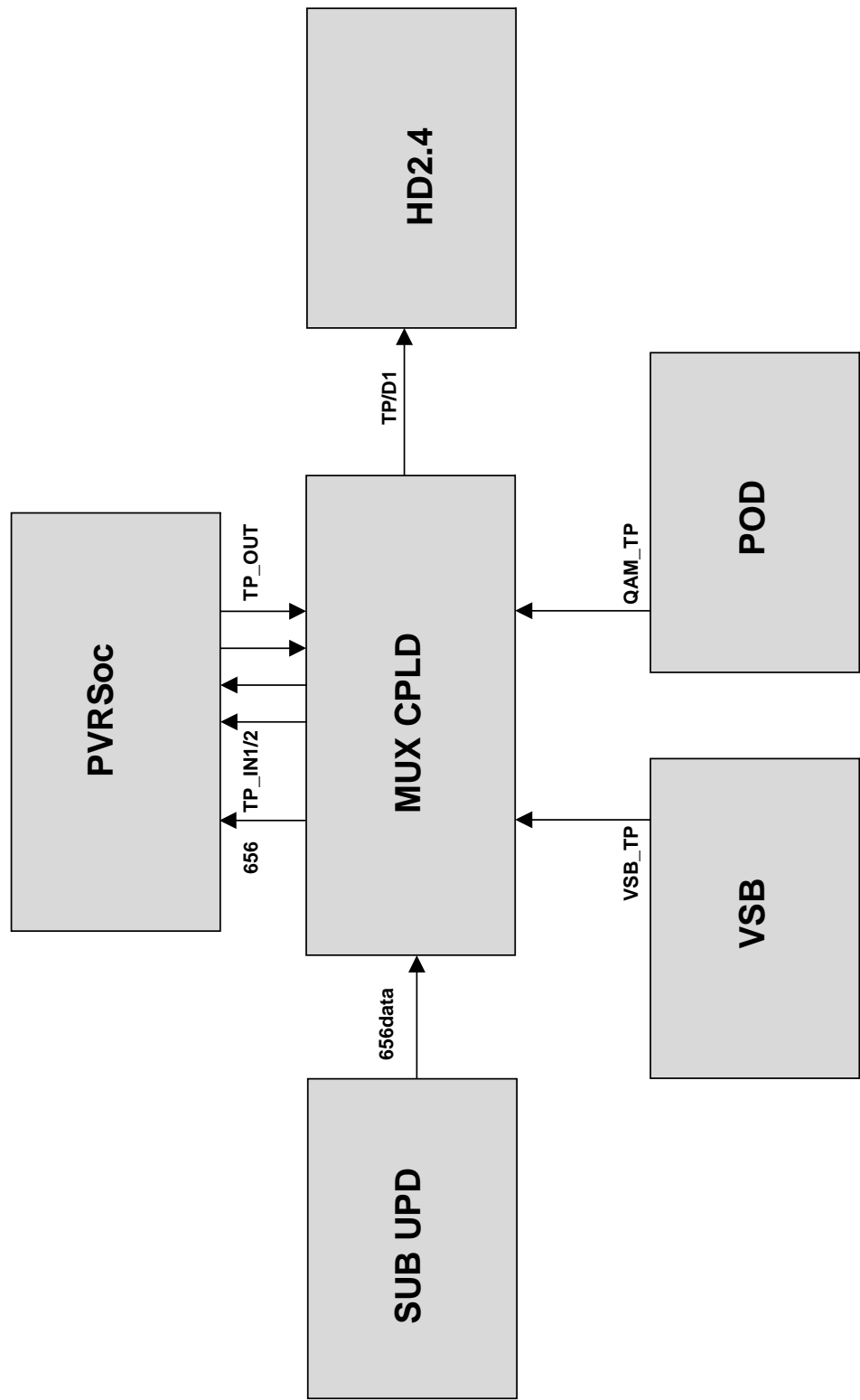
| NO | KEY | FUNTION | REMARK |
|----|----------------|---|---|
| 1 | POWER | To turn the TV on or off | |
| 2 | POWER ON | To turn the TV on automatically if the power is supplied to the TV. (Use the POWER key to deactivate): It should be deactivated when delivered. | |
| 3 | MUTE | To activate the mute function. | |
| 4 | P-CHECK | To check TV screen image easily. | Shortcut keys |
| 5 | S-CHECK | To check TV screen sound easily | Shortcut keys |
| 6 | ARC | To select size of the main screen (Normal, Spectacle, Wide or Zoom) | Shortcut keys |
| 7 | CAPTION | Switch to closed caption broadcasting | |
| 8 | TXT | To toggle on/off the teletext mode | |
| 9 | TV/AV | To select an external input for the TV screen | |
| 10 | TURBO SOUND | To start turbo sound | |
| 11 | TURBO PICTURE | To start turbo picture | |
| 12 | IN-START | To enter adjustment mode when manufacturing the TV sets. | Use the AV key to enter the screen W/B adjustment mode. |
| | | To adjust the screen voltage (automatic): In-start → mute → Adjust → AV(Enter into W/B adjustment mode) | |
| | | W/B adjustment (automatic): After adjusting the screen →W/B adjustment →Exit two times (Adjustment completed) | |
| | | | |
| 13 | ADJ | To enter into the adjustment mode. To adjust horizontal line and sub-brightness. | |
| 14 | MPX | To select the multiple sound mode (Mono, Stereo or Foreign language) | |
| 15 | EXIT | To release the adjustment mode | |
| 16 | APC(PSM) | To easily adjust the screen according to surrounding brightness | |
| 17 | ASC(SSM) | To easily adjust sound according to the program type | |
| 18 | MULTIMEDIA | To check component input | Shortcut keys |
| 19 | FRONT-AV | To check the front AV | Shortcut keys |
| 20 | CH ± | To move channel up/down or to select a function displayed on the screen. | |
| 21 | VOL ± | To adjust the volume or accurately control a specific function. | |
| 22 | ENTER | To set a specific function or complete setting. | |
| 23 | PIP CH-(OP1) | To move the channel down in the PIP screen. To use as a red key in the teletext mode | |
| 24 | PIP CH+(OP2) | To move the channel in the PIP screen To use as a green key in the teletext mode | |
| 25 | PIP SWAP(OP3) | To switch between the main and sub screens To use as a yellow key in the teletext mode | |
| 26 | PIP INPUT(OP4) | To select the input status in the PIP screen To use as a blue key in the teletext mode | |
| 27 | EYE | To set a function that will automatically adjust screen status to match the surrounding brightness so natural color can be displayed. | |
| 28 | MENU | To select the functions such as video, voice, function or channel. | |
| 29 | IN-STOP | To set the delivery condition status after manufacturing the TV set. | |
| 30 | STILL | To halt the main screen in the normal mode, or the sub screen at the PIP screen. Used as a hold key in the teletext mode (Page updating is stopped.) | |
| 31 | TIME | Displays the teletext time in the normal mode Enables to select the sub code in the teletext mode | |
| 32 | SIZE | Used as the size key in the PIP screen in the normal mode Used as the size key in the teletext mode | |
| 33 | MULTI PIP | Used as the index key in the teletext mode (Top index will be displayed if it is the top text.) | |
| 34 | POSITION | To select the position of the PIP screen in the normal mode Used as the update key in the teletext mode (Text will be displayed if the current page is updated.) | |
| 35 | MODE | Used as Mode in the teletext mode | |
| 36 | PIP | To select the simultaneous screen | |
| 37 | TILT | To adjust screen tilt | Shortcut keys |
| 38 | 0~9 | To manually select the channel. | |



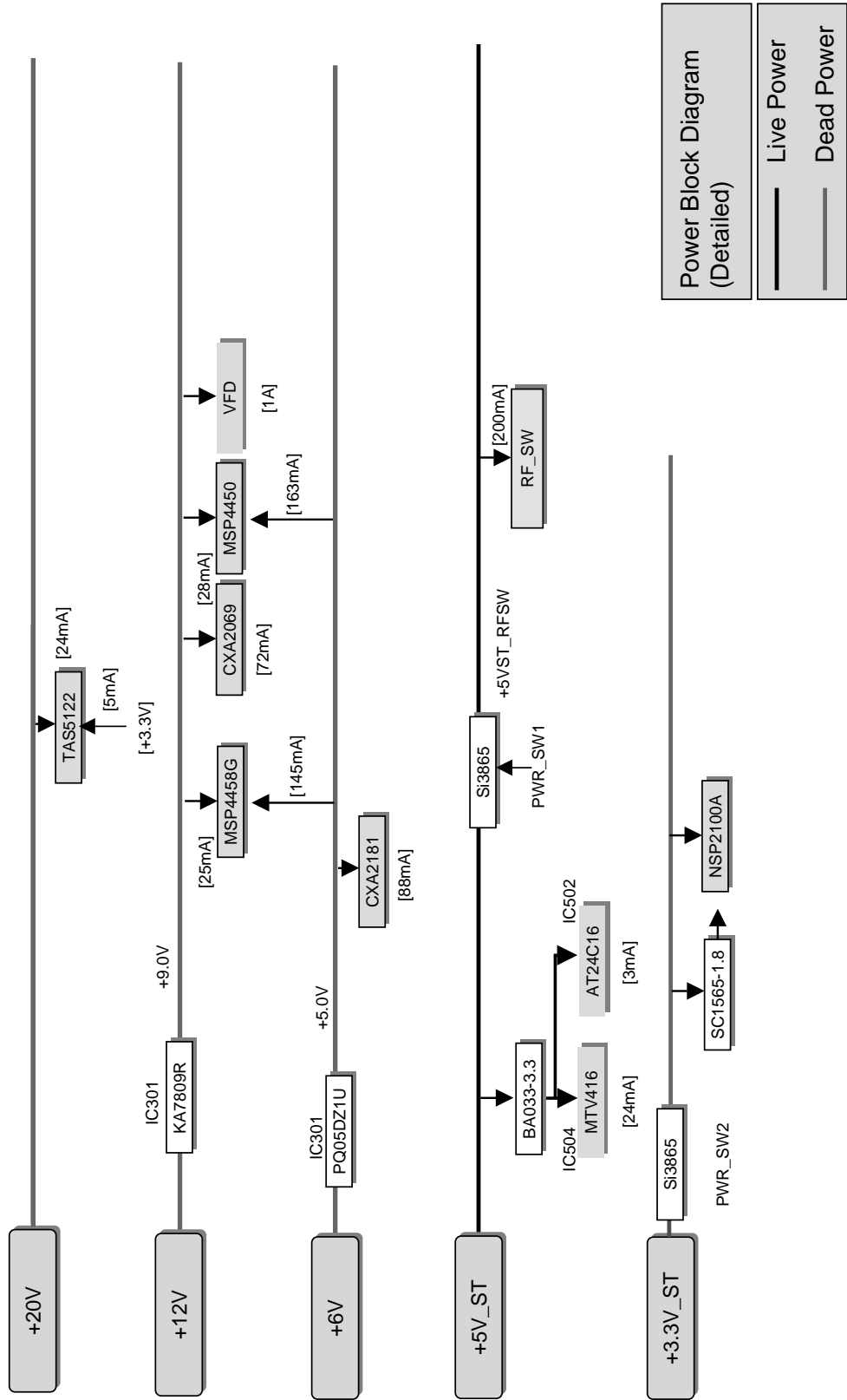
- DCR DVR



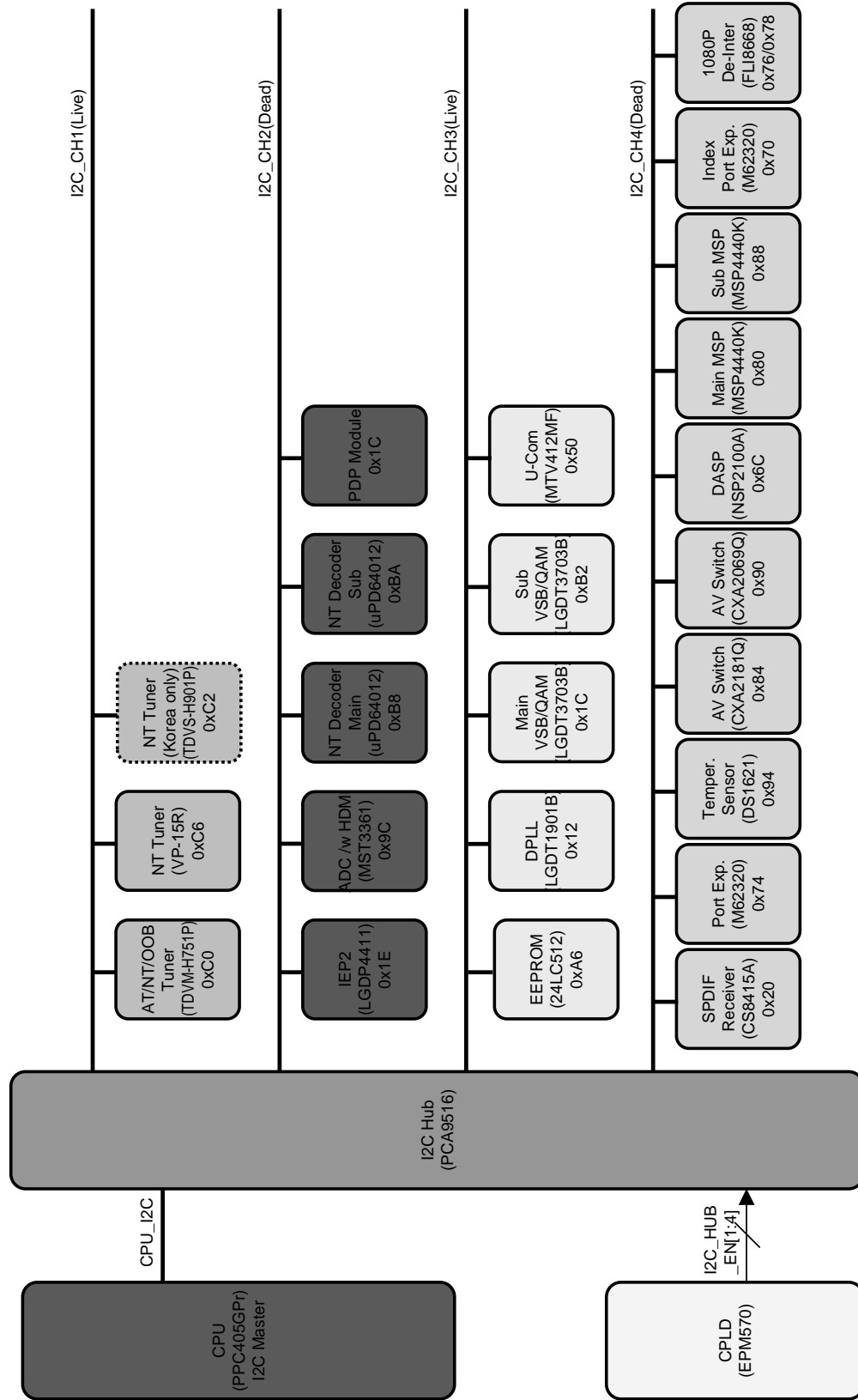
• Digital B/D MUX Interface



• Digital B/D Power Block



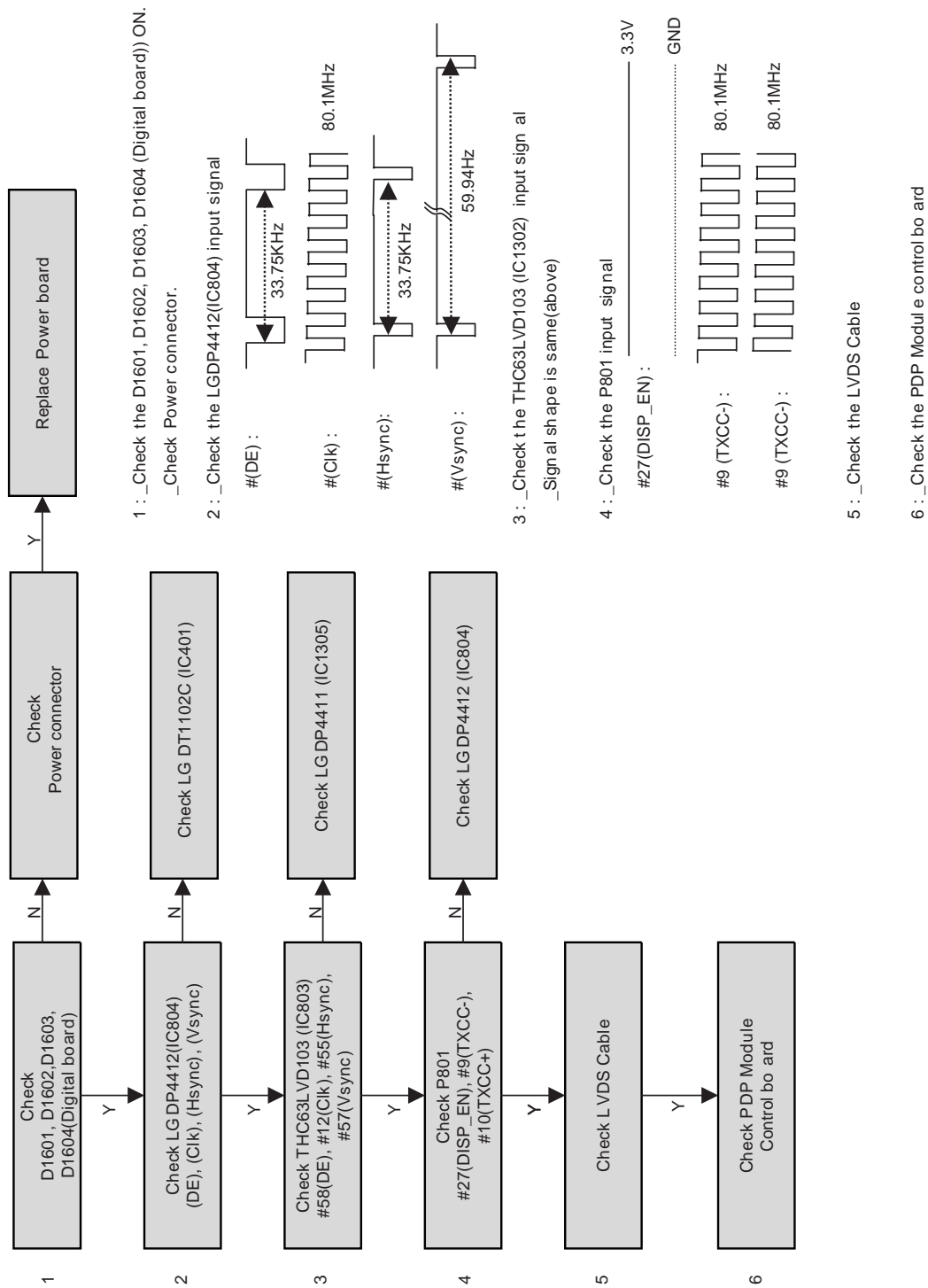
• DCR DVR I2C MAP



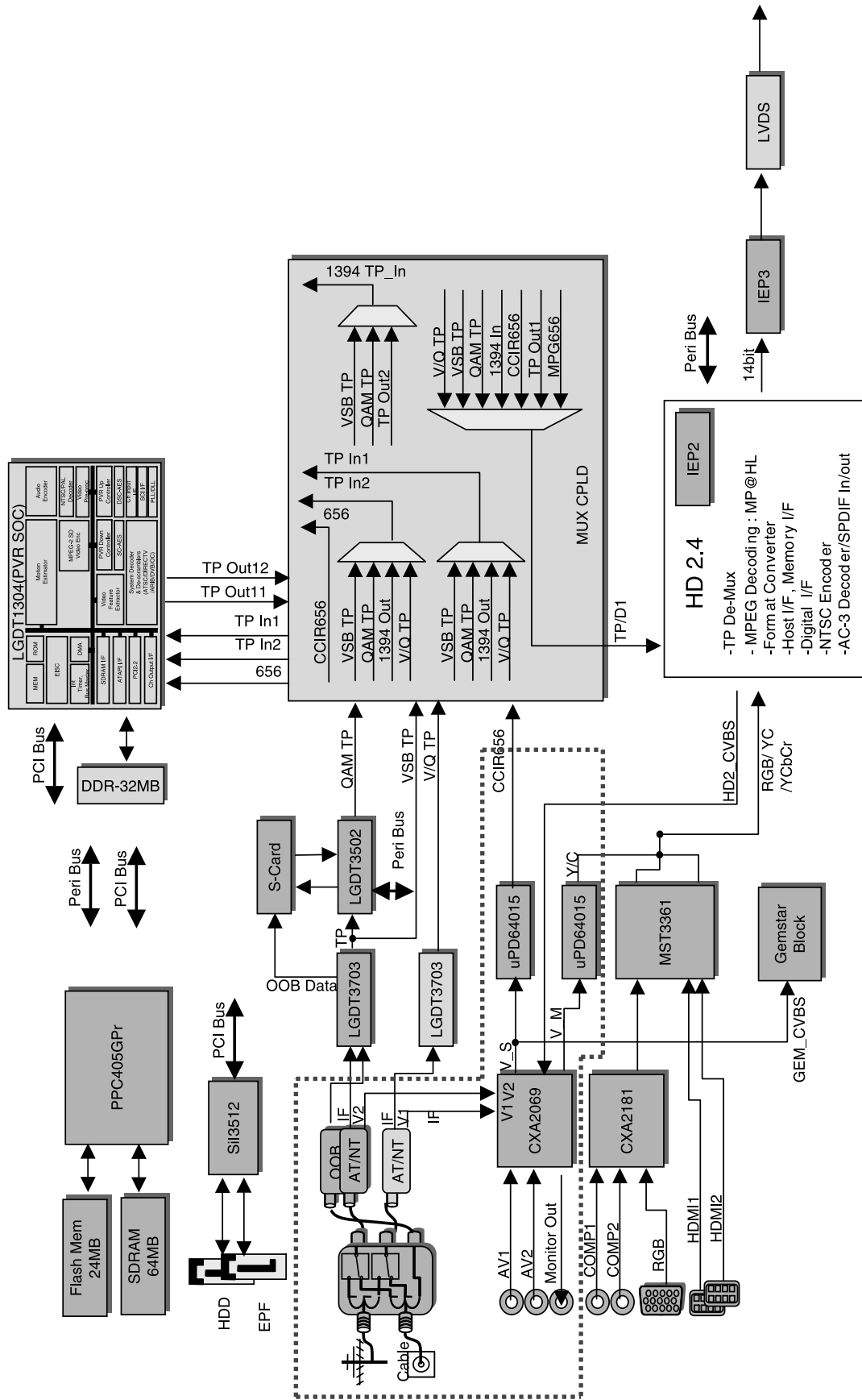
[illegible]

The diagram illustrates the system architecture centered around the LGDT1304(PVR SOC). The SOC is a complex chip that integrates various functions, including CPU, GPU, and I/O controllers. It is connected to a PPC405GPr processor, which manages the system's operations. The SOC also interfaces with DDR-32MB memory and various peripheral devices, including HDD, EPF, S-Card, and a Cable. The SOC's output is managed by a MUX CPLD, which routes the signals to the appropriate output blocks. These blocks include V1V2, CXA2069, CXA2181, uPD64015, and MST3361, which ultimately lead to the system's output.

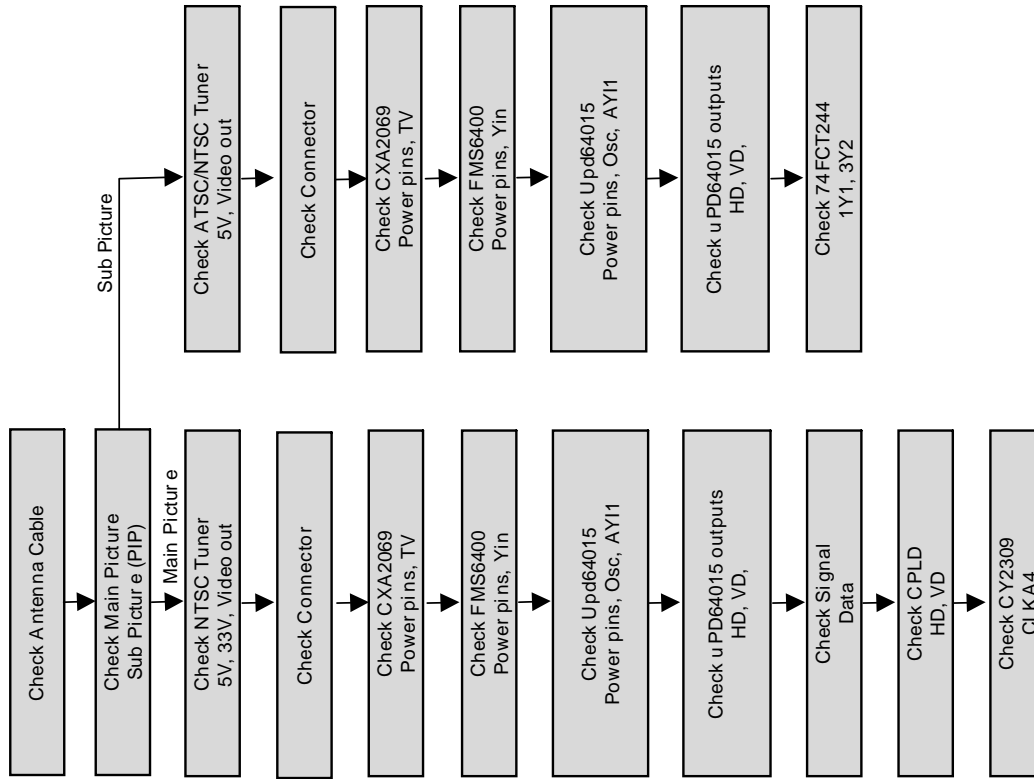
• DCR NO OSD



• DCR DVR RF/AV MODE



• DCR DVR RF/AV MODE



1 : _ Check Antenna cable (RF Switch, Tuner ..)

2 : _ Execute DW or PIP

3 : _ Check Tuners Vcc and Video out

4 : _ Check CXA2069 power, input signal _TV, V5 signal shape looks like figure7.1

5 : _ Check FMS6400 power, input signal _Yin signal shape looks like figure7.1

6 : _ Check uPD64001 power, input signal _AY11 signal shape looks like figure7.1

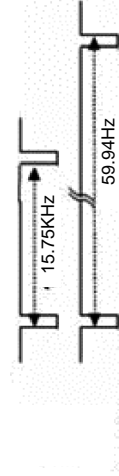
7 : _ Check uPD64011 output signal



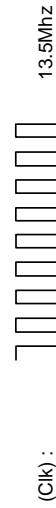
8 : _ Check the signal



9 : _ Check the signal



10 : _ Check the signal



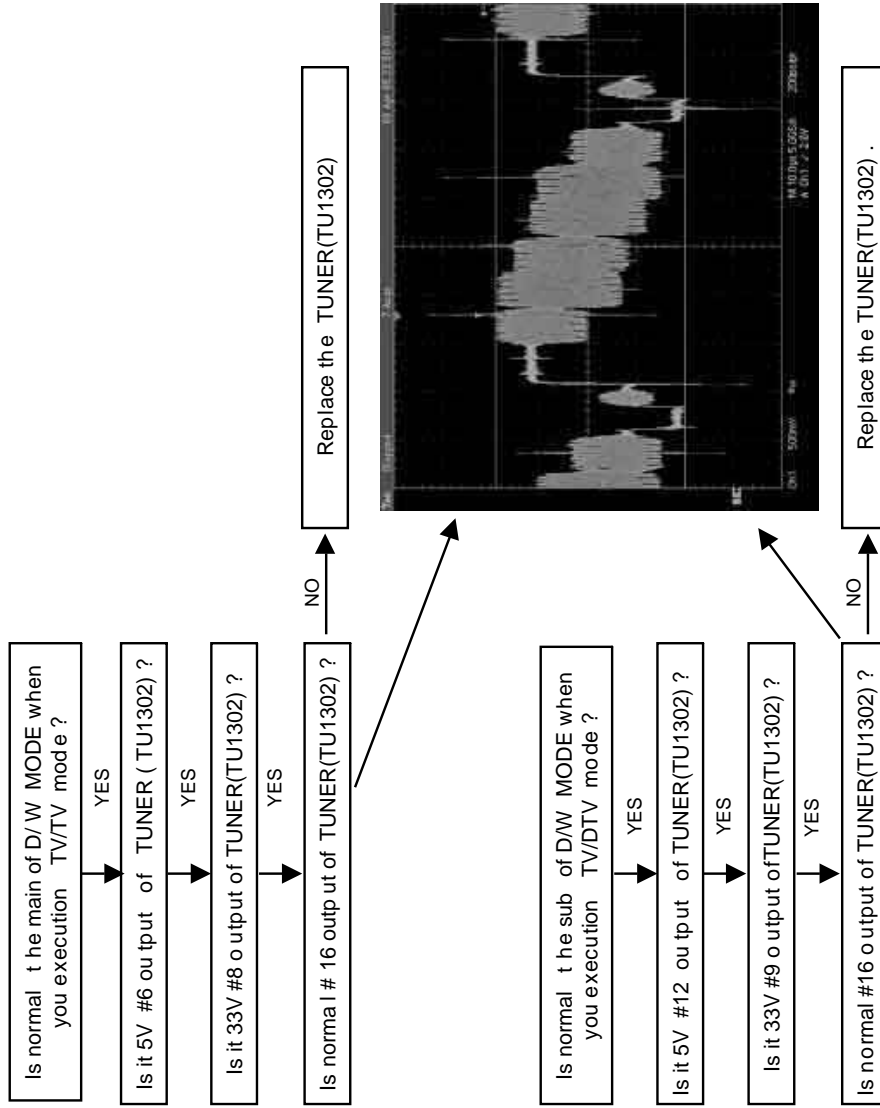
• DCR RF MODE(Detailed)

1. Check follow

1-1. Execution PIP or D/W mode



(TV/CATV mode does not display)



• DCR DVR RF MODE

1. Check follow

1-2. When it is normal at output of the TUNER

Is normal the main of D/W MODE?

Is it 9V #42 of CXA2069(IC101) ?

Is normal #56 output of CXA2069(IC101)?
FIG1

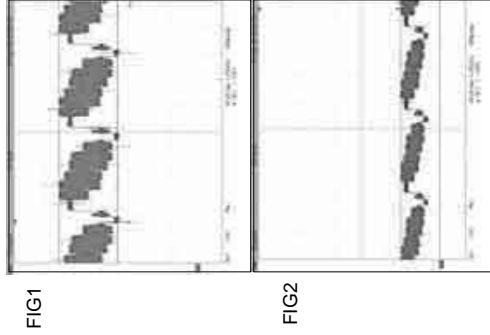


FIG1

FIG2

Is normal the sub of D/W MODE?

Is it 9V #42 of CXA2069(IC101) ?

Is normal #44 output of CXA2069(IC101)?
FIG1

Is normally connected P101 to P1612 ?
Flat cable

Is normal output of FMS6400(IC702) ?
FIG2

Is normal UPD64015 Power(1.5V,3.3V)

Is normal output of UPD64015(IC701)?
Digital Output Y(10bit),C(10bit),H/V,FID

Is normal output of FMS6400(IC704)?
FIG2

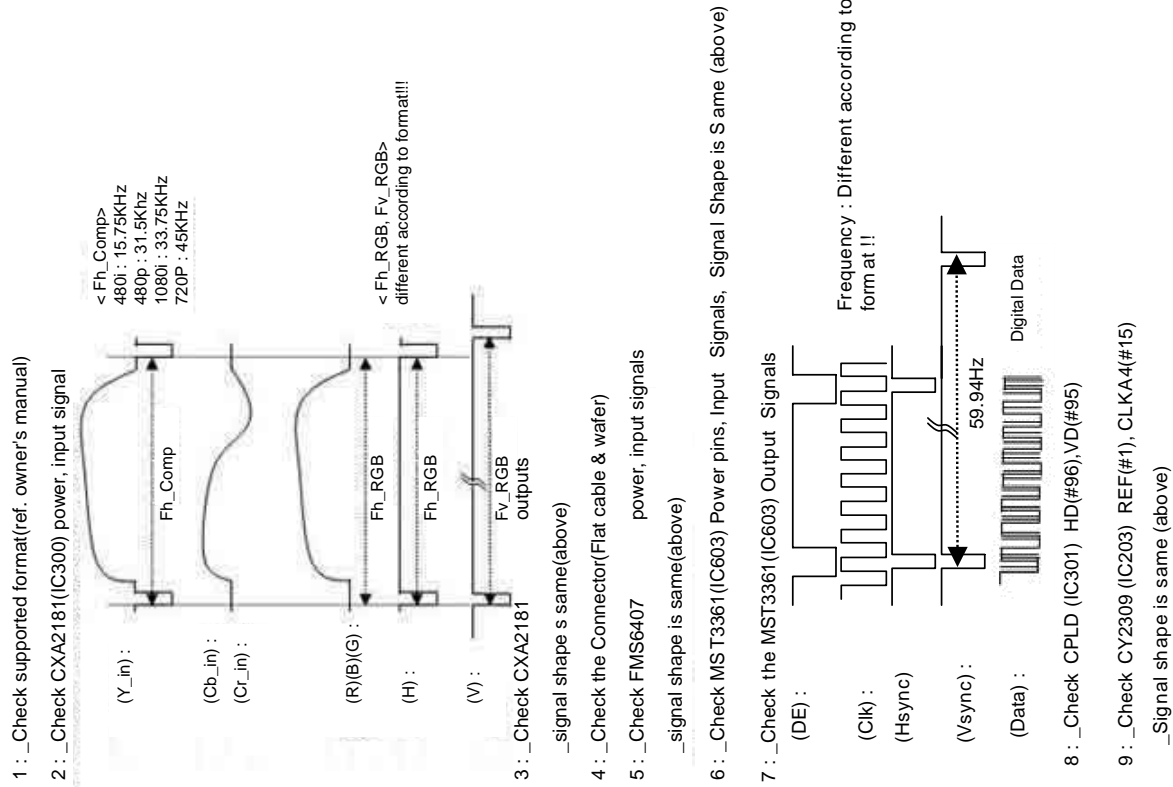
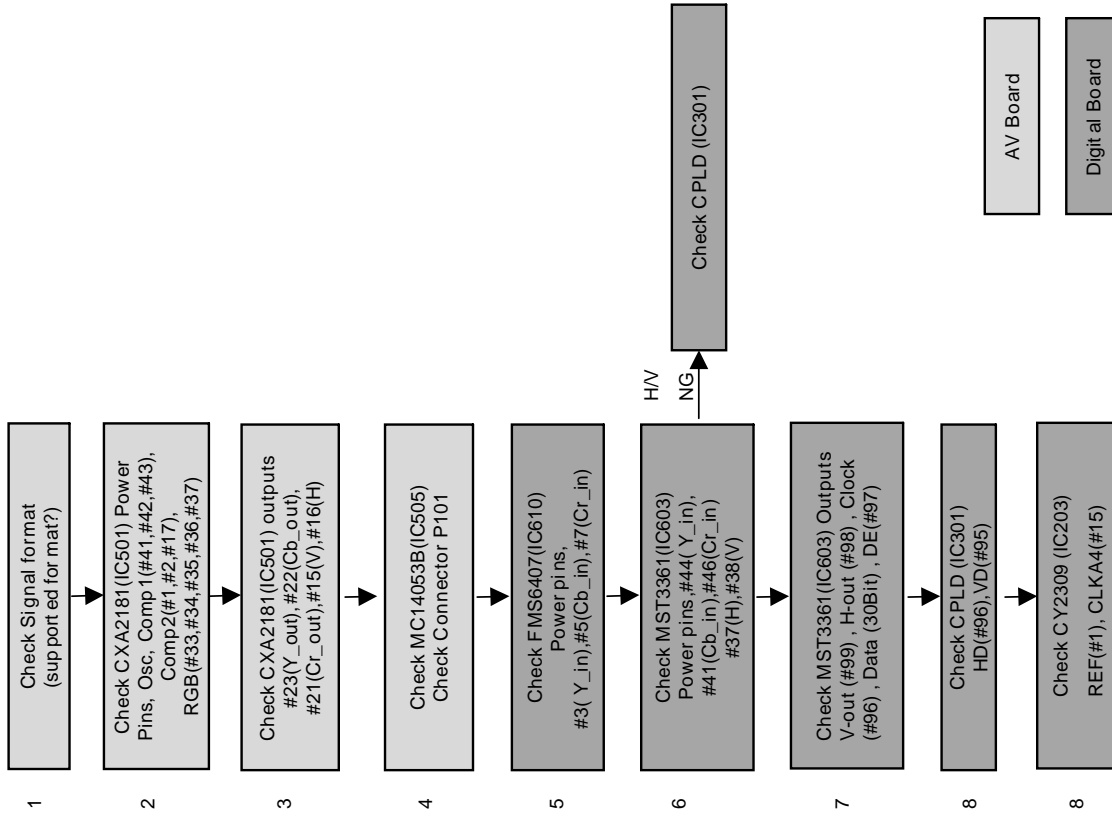
Is normal UPD64015 Power(1.5V,3.3V)

Is normal output of UPD64015(IC701)?
Digital Output Y(10bit),C(10bit),H/V,FID

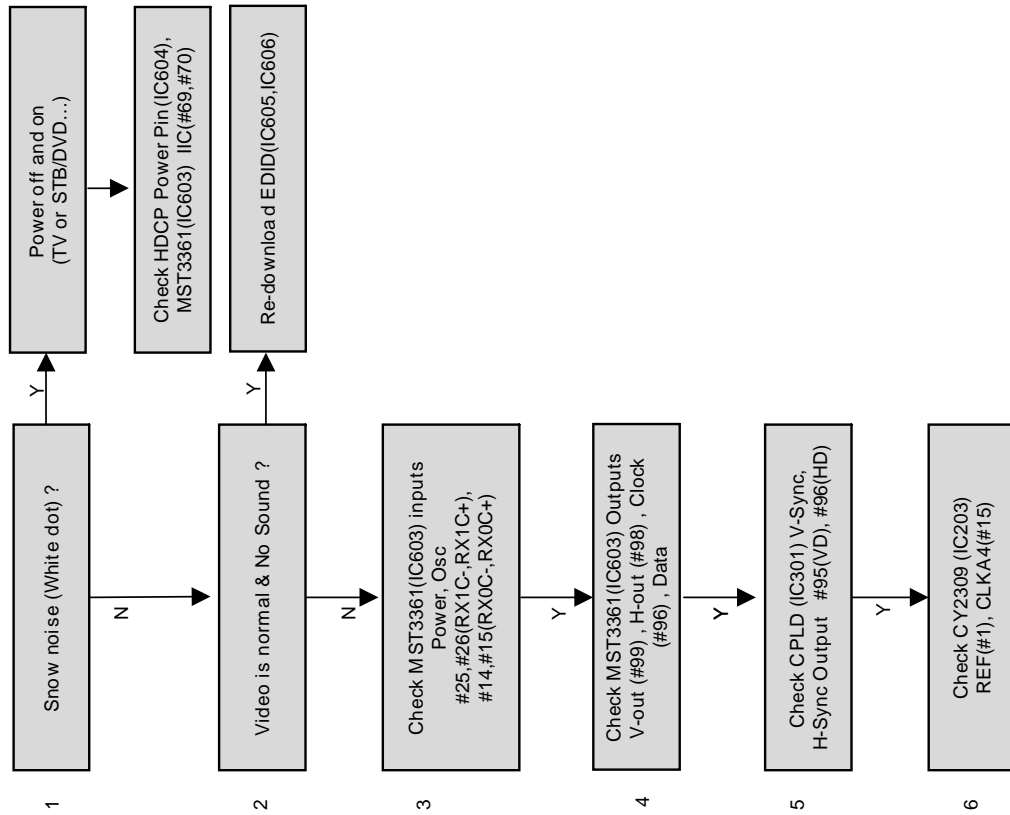
(TV/CATV mode does not display)

[illegible]

• DCR COMP Component/RGB



• DCR DVR HDMI/DVI



1 : _Check HDCP Error

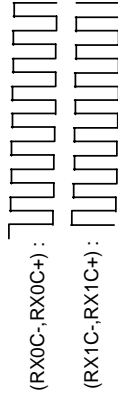
_Retry power off and on (TV or STB/DVD...)

_Check MST3361 (IC603) HDCP IIC line (#69, #70)



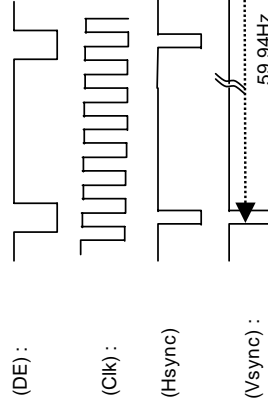
2 : _Check EDID Download

3 : _MST3361 (IC603) inputs



Frequency : Different according to form at !!

4 : _Check MST3361 (IC603) Outputs



Frequency : Different according to form at !!

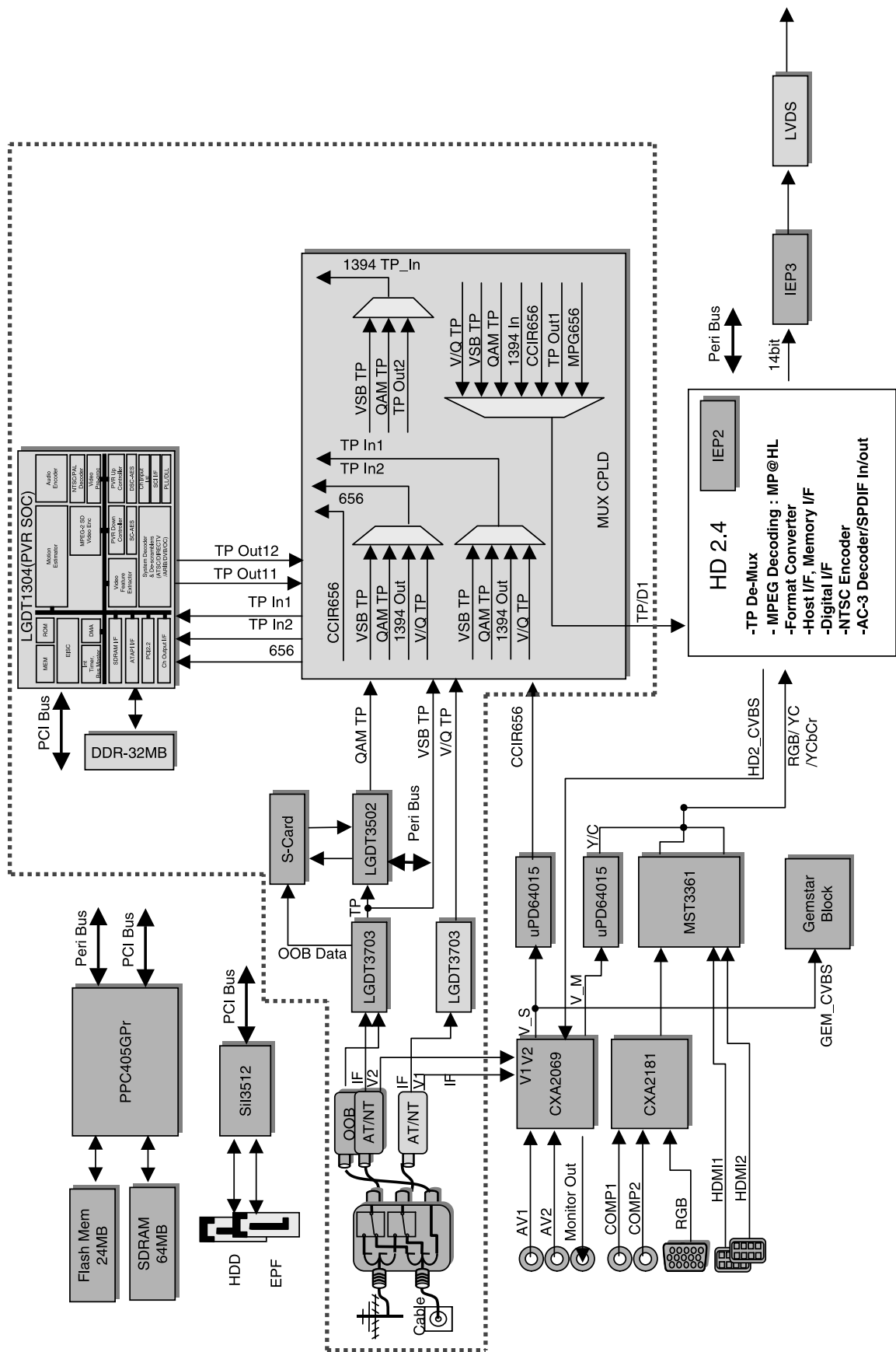
5 : _Check CPLD (IC301) V-Sync, H-Sync Output #95 (VD), #96 (HD)

_Signal shape is same (above)

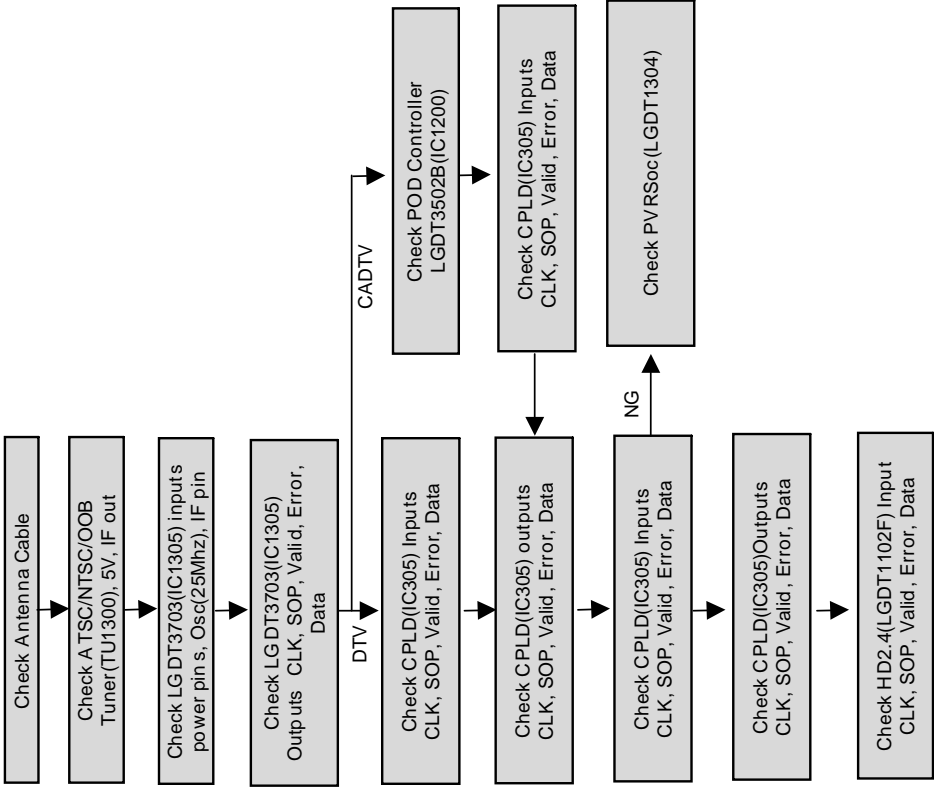
6 : _Check CY2309 (IC203) REF (#1), CLKA4 (#15)

_Signal shape is same (above)

• DCR DVR DTV/CADTV



• DCR DVR DTV/CADTV



- 1 : _ Check Antenna cable(RF switch, Tuners...)

2 : _ Check Tuners Vcc and IF out
- 3 : _ Check LGDT3703(IC1305) inputs power pins, Osc(25Mhz), IF pin Signal

4 : _ Check LGDT3703(IC1305) Outputs
- TPCLK

TPSOP

TPVALID

nTPERR

TPDATA[7:0]
- 5 : _ In case of DTV Check CPLD(IC305) Inputs (CLK, SOP, Valid, Error, Data)

_ Signal Shape is same (above)

6 : _ In case of CADTV Check POD Controller

_ Signal Shape is same (above)

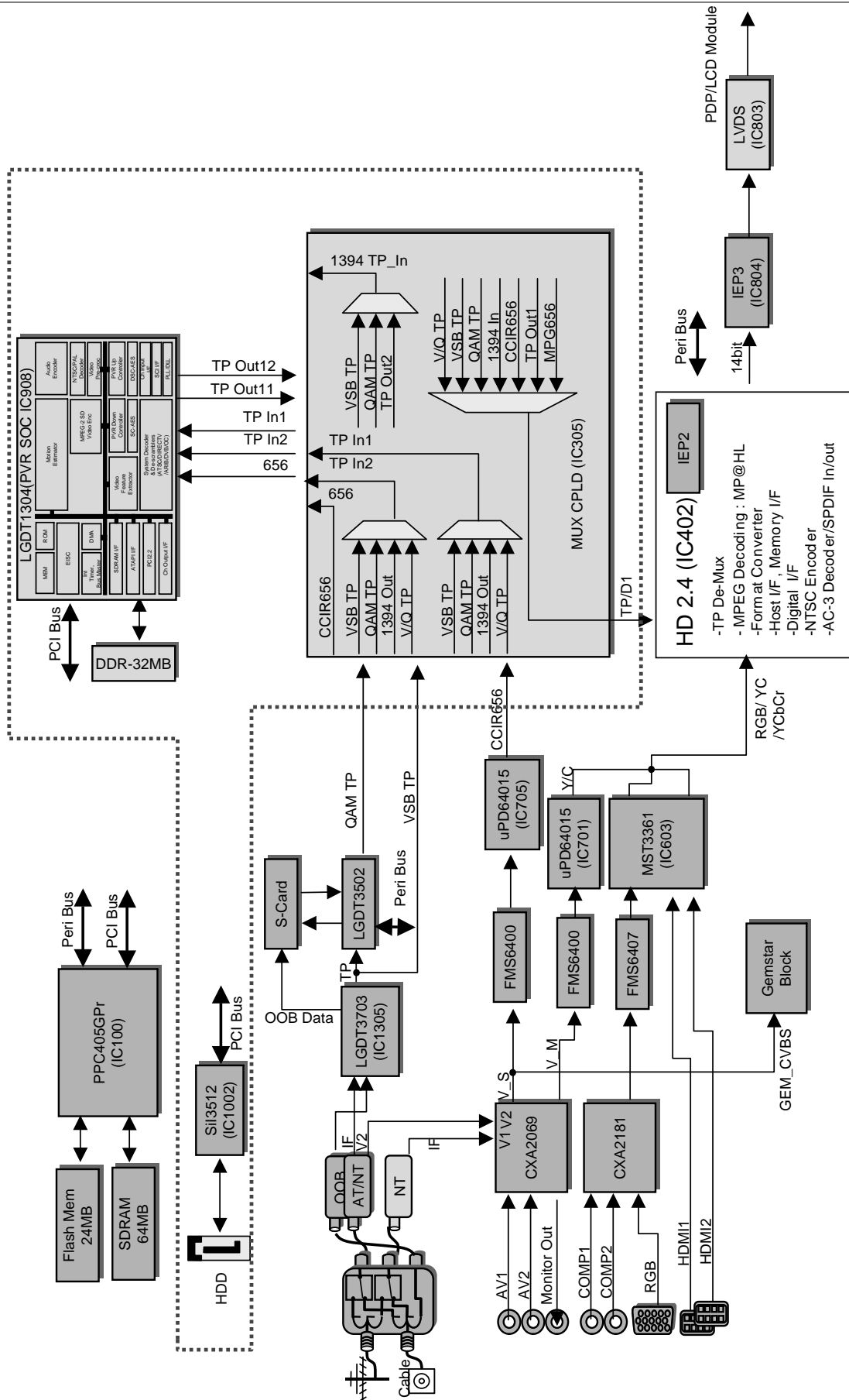
7 _ Check CPLD(IC305) Inputs (CLK, SOP, Valid, Error, Data a)

8 _ Check PVR Soc(LGDT1304)

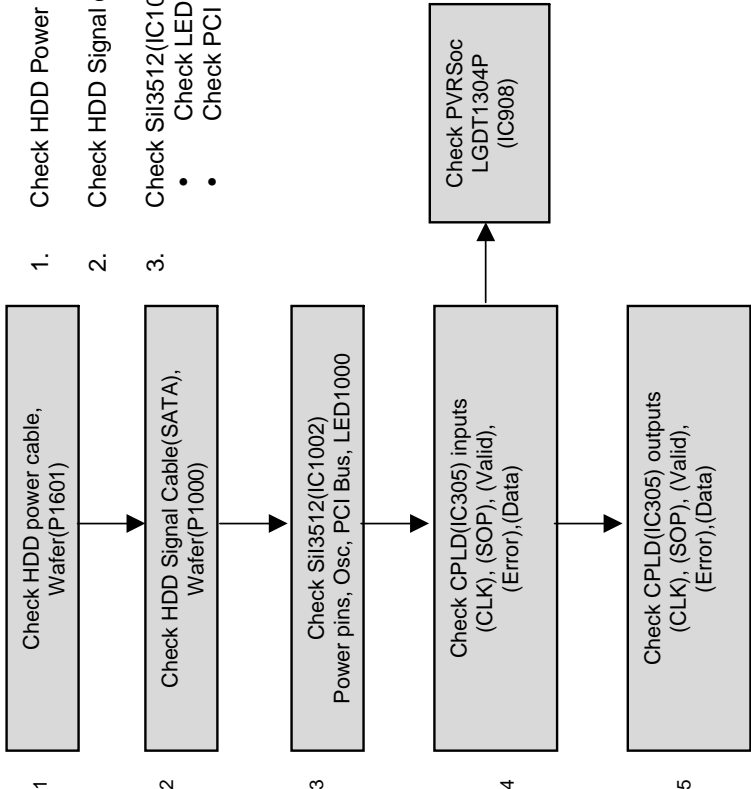
9 _ Check CPLD(IC305)Outputs (CLK, SOP, Valid, Error , Data)

10 _ Check HD2.4(LGDT1102F) Input (CLK, SOP, Valid, Error, Data)

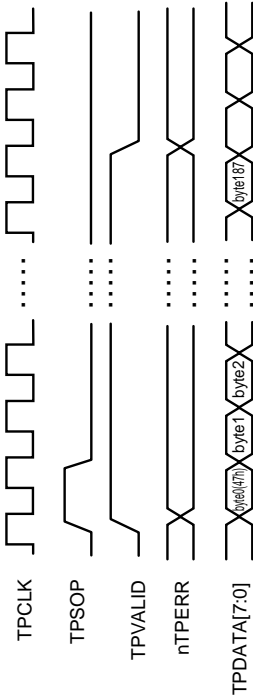
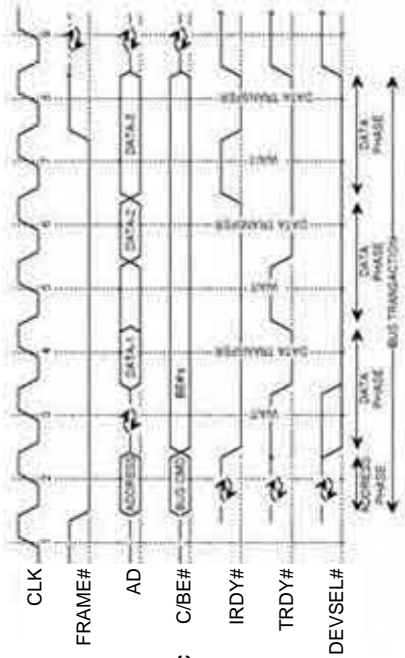
• HDD PLAY BACK



•HDD PLAY BACK



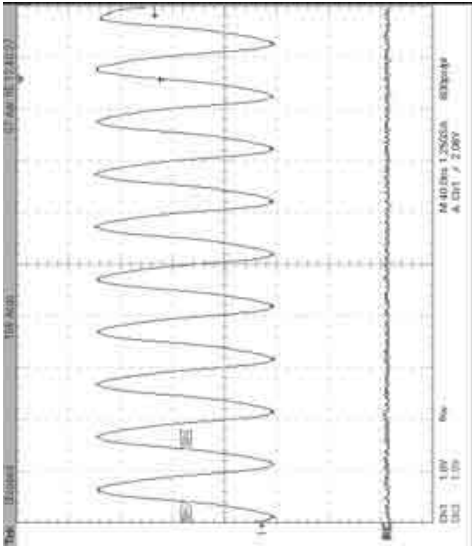
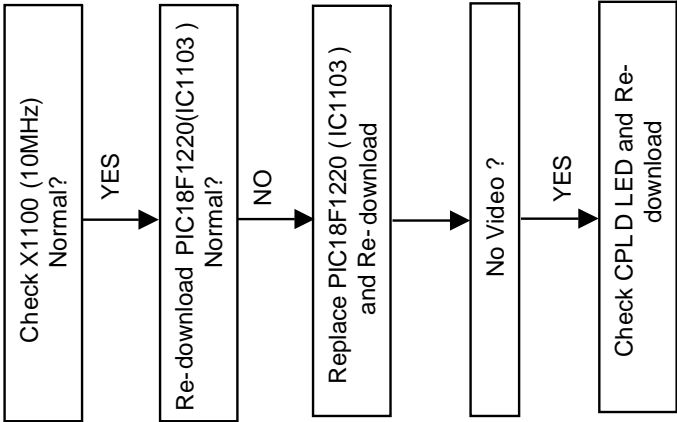
1. Check HDD Power cable. #1 : 5V, #4:12V
2. Check HDD Signal cable (SATA)
3. Check Sil3512(IC1002) inputs: Power pins, Osc
 - Check LED1000 blinking
 - Check PCI bus



4. Check CPLD(IC305) inputs:
(Clock, Sop, Valid, Error, Data : 8bit)
PVR Soc Memory Test :
(Hardware test Menu)
5. Check CPLD(IC305) outputs:
(Clock, Sop, Valid, Error, Data : 8bit)

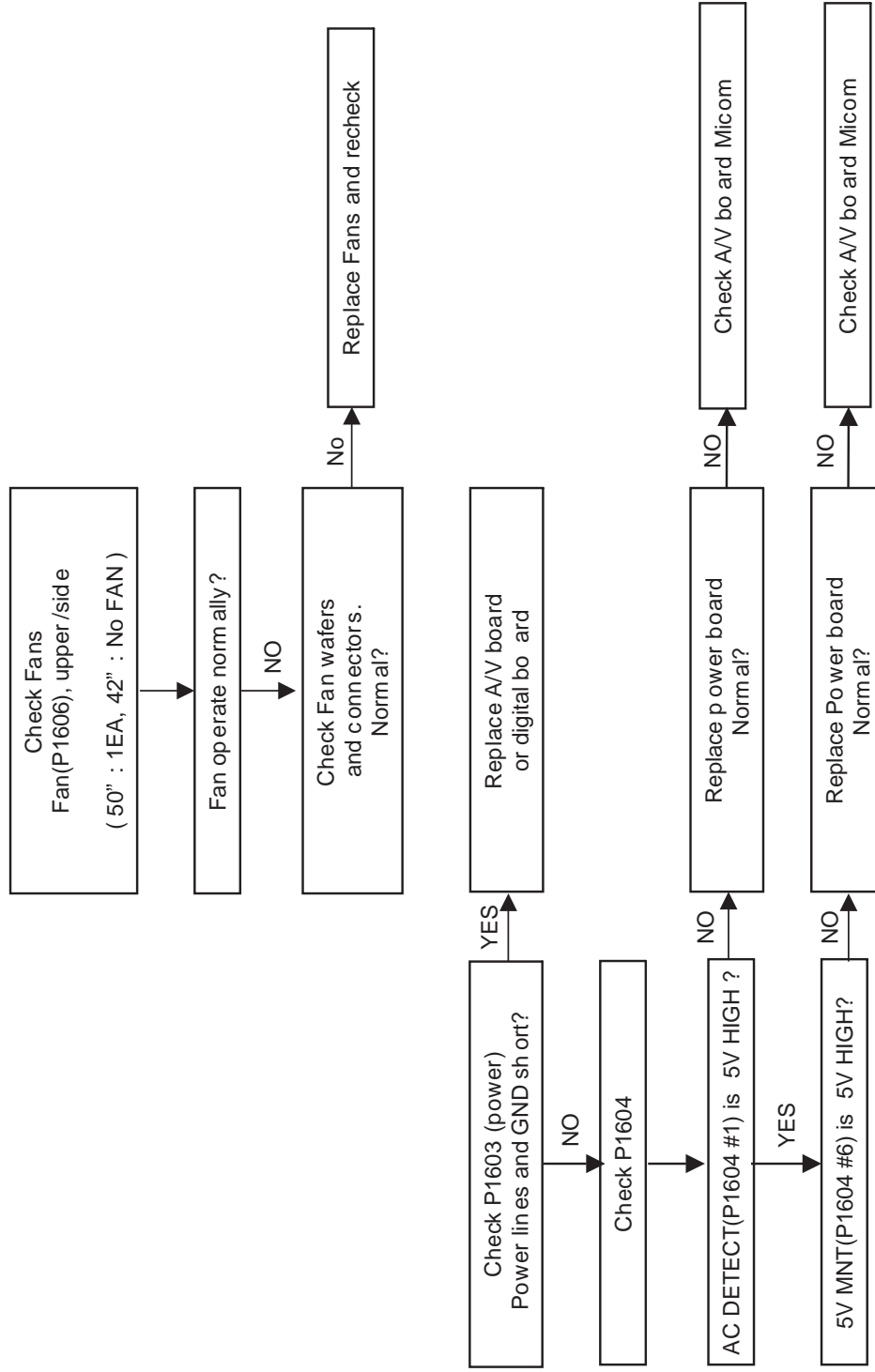
• Power On-Off repetition(Automatically)

Symptom : TV set powers on (LED :White) and off (LED :Red) repeatedly of its elf. (No video)



• Protect Mode

Symptom : When TV set powers on, LED is blinking in seconds. And power off(LED is red)



CableCARD™ TROUBLESHOOTING GUIDE

CableCARD Definition

1. CableCARD device is A PCMCIA card distributed by cable operators and inserted into a DCR TV(Host) to enable premium services, also called "Card" and "Point of Deployment(POD) module". It provides authorization, CA(Conditional Access) decryption and CP(Copy Protection) encryption functions for the consumer's DCR TV.

Troubleshooting in the Home for CableCARD Installers

- It is recommended that installers bring along a couple of CableCARDs for troubleshooting. This will help eliminate the CableCARD as a possible problem during the installation.
- Before installing the CableCARD, installers should check that the Digital Cable Ready (DCR), also referred to as a HOST, is functional without a CableCARD.
 - Verify Host (TV) Operation: The installer can perform this by connecting the RF cable to the correct cable input of the DCR (there may be connections for a terrestrial antenna) and verifying good picture quality. The DCR will display all non- encrypted analog and digital content. (The DCR must not receive RF signal via a STB or accessory RF modulator.) This will eliminate basic TV circuitry as a possible problem.
 - Check that the CableCARD is inserted properly. When inserting cable card push carefully but firmly until you feel the card click into place.
 - Verify RF from Cable System Tap: The installer can also connect a cable set top box to confirm reception of encrypted digital services. This will help eliminate the RF signal as a possible problem.
- If the first CableCARD installed does not result in a User Interface screen (also referred to as MMI screen) within 5 - 7 minutes, try unplugging the AC Power cord of the DCR and reconnecting it (to reset the DCR) then try to await coming out of the user Interface screen again. If this is still unsuccessful, try another CableCARD.
 - To eliminate the possibility of a damaged CableCARD or DCR device, the technician should look closely at the CableCARD device to ensure that none of the pinholes are blocked or clogged.
 - Check Host Interface. Using a flashlight, the technician should check the CableCARD slot on the DCR TV to ensure that there are no bent pins.
- If the second CableCARD is successful, make sure the CSR or Dispatcher knows the new MAC ID and CableCARD ID to complete the installation. The original card should be marked accordingly and returned for repair.
- Check the CableCARD menu options.

If the second CableCARD fails to bring up the User Interface screen, the technician should refer to the diagnostic menus on the DCR for further troubleshooting. The technician can pull up the User Interface screen manually through the menu choices. the customer should provide the User Manual, so the technician can easily navigate through the DCR TV menu screens. Below table describes how to navigate the CableCARD menu. This list of selectable CableCARD options will vary, depending on your cable service provider or CableCARD manufacturer. Also, below table shows how to access diagnostic screens for the DCR TV. Many of these screens are not described in the User Manual.

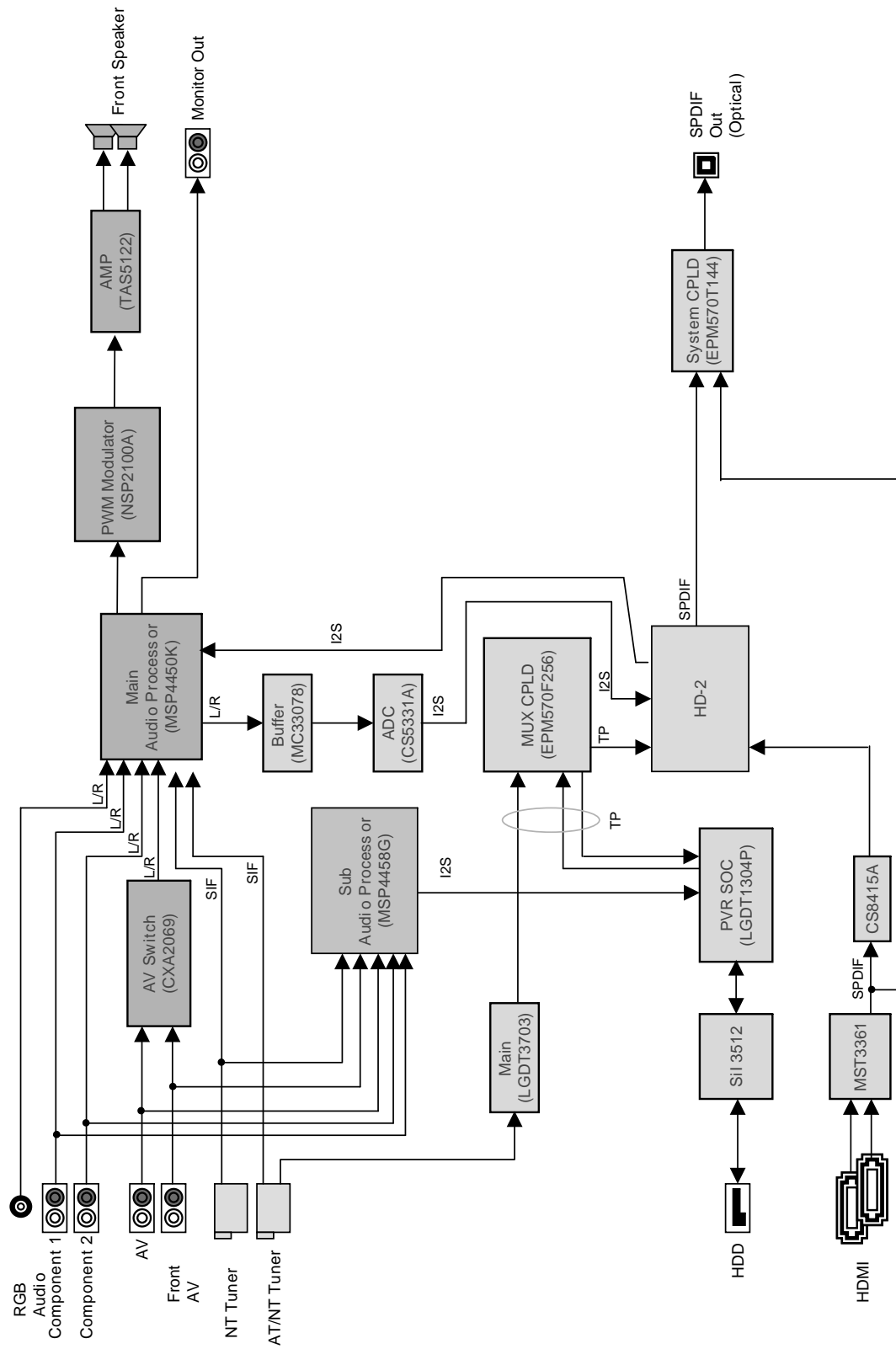
| CableCARD Mfg | Diagnostic Type | 1st key | 2nd key | 3rd key |
|---------------|---------------------------------------|---------|--|---|
| ALL | CableCARD main menu | MENU | Use cursor to selec t CABLE ico n then press ENTER | N/A |
| Motorola | CableCARD pairing status | MENU | Use cursor to selec t CABLE ico n then press ENTER | Use cursor to select CableCARD. Pairing option, press ENTER |
| Motorola | Network status | MENU | Use cursor to selec t CABLE ico n then press ENTER | Use cursor to select Network. Setup option, press ENTER |
| Motorola | CableCARD status | MENU | Use cursor to selec t CABLE ico n then press ENTER | Use cursor to select CableCard. Stautus option, press ENTER |
| Mororola | CA status | MENU | Use cursor to selec t CABLE ico n then press ENTER | Use cursor to select Conditional. Access option, press ENTER |
| NDS | CableCARD pairing status | MENU | Use cursor to selec t CABLE ico n then press ENTER | Use Cursor to select CableCARD. Pairiong option, press ENTER |
| NDS | Network status | MENU | Use cursor to selec t CABLE ico n then press ENTER | Use cursor to select Network Setup option, press ENTER |
| NDS | CA status | MENU | Use cursor to selec t CABLE ico n then press ENTER | Use cursor to select Conditional Access option, press ENTER |
| SA | CableCard Diagnostics | MENU | Use cursor to selec t CABLE ico n then press ENTER | Use cursor to select SA125 125CableCARD Diag option, press ENTER |
| SA | CableCard pairing status | MENU | Use cursor to selec t CABLE ico n then press ENTER | USE CURSOR TO SELECT SA CableCARD HOST ID optio, press ENTER |
| SA | CableCARD Copy protection information | MENU | Use cursor to selec t CABLE ico n then press ENTER | Use cursor to select SA CableCARD CP Screen option, press ENTER |

7. If installer is still having a problem, the installer should report the problem to the MSO headend dispatcher for troubleshooting. If the cable company dispatcher (head end personnel) has completely checked their channel set-up, confirmed the accounting/ billing system to setup is correct, and has confirmed normal channel map with a or more other DCR TVs at the MSO headend, then go on to the next step.
8. If the installer determines that the DCR device is the problem (unit failed either item 2a or 3b above) and can go no further in correcting the problem, and if the installer determines that the host- pod pairing screen cannot be displayed with multiple CableCARDs, he or she should follow the directions given by the CE manufacturer in informing the customer of their options. usually involving either a return of the DCR device to the retail outlet from which it was purchased or The customer should start by contacting the CE manufacturer directly for assistance and/ or repair information.
- In many cases, if the HOST is under warranty, the repair will be done at the customer's home. Contact Point : Jong Gyu Kim (jongkim@ lge. com, 1-847- 941- 8828) Vice-President, Zenith R& D center. Jong Hoon Lee (jonghoon. lee@ zenith. com, 1- 847- 941- 8774) Engineer, Zenith R& D center.
9. If using a STB will allow the customer to receive services on the damaged DCR device, the installer can leave a box in the customer's home until the customer resolves the issue with the CE manufacturer.
10. If the technician is able to install the CableCARD device and access the User Interface screen (also referred to as MMI screen), and has relayed the information to the dispatcher, but is still not receiving encrypted programming, this programming may be protected through the use of copy protection directive. Ensure that the information passed to dispatch is correct. Relay again the Host ID, CableCARD ID and Data ID (Motorola only). Dispatch will send a hit to the CableCARD once the information is checked and verified. The CableCARD must be paired to the Host before copy protected programming can be displayed. Note that it may take several minutes from the time dispatch sends the authorization before it reaches the DCR device. The MMI screens should be checked to verify if the authorization has been received. For SA systems the host- pod pairing screen should say "Authorization Received." For Motorola the Conditional Access MMI State parameter should say "Subscribed".
- (These should be verified by POD Manufacturers or cable companies.)
11. To confirm the Headend Validation for displaying the encrypted channel, the technician should check the CableCARD menu. For SA systems, the CableCARD Copy Protection Information menu should say "Authorization Received". For Motorola systems, the Conditional Access menu should say "Valid xx (2 digit)".
12. If encrypted programming is still not displayed, installer should check the status of followings.
- Cable Channel List : Ready
 - CableCard : Inserted
 - FDC status (OOB Status) : Lock
 - SNR(Signal to Noise Ratio) : higher than 12 dB is normal range.
- Below table describes how to check above status in LG DCR TV.

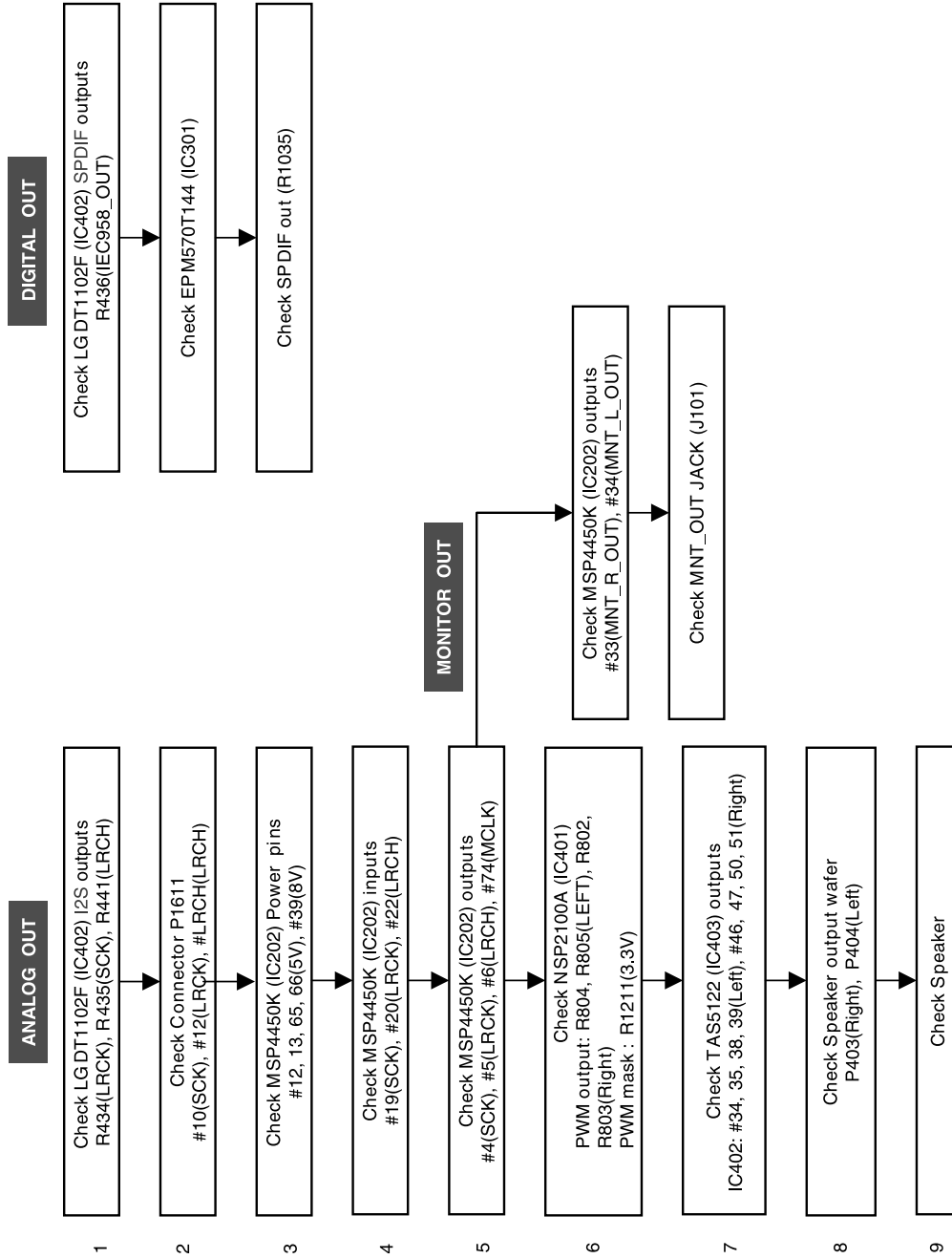
| Cabl eCARD Mfg | Diagnostic Type | 1st key | 2nd key | 3rd key | 4th key | 5th Key |
|------------------------------------|---|---------|------------------------------------|--------------------------|--------------------------|--------------------------|
| ALL - works with any Cabl eCARD | Host D i agno st i cs (In Band Si gnal Status, OOB Signal Status, etc) | MENU | Use cursor to select CABLE icon | Press button 0 (zero) | Press button 0 (zero) | Press button 0 (zero) |

AUDIO TROUBLESHOOTING & BLOCK DIAGRAM

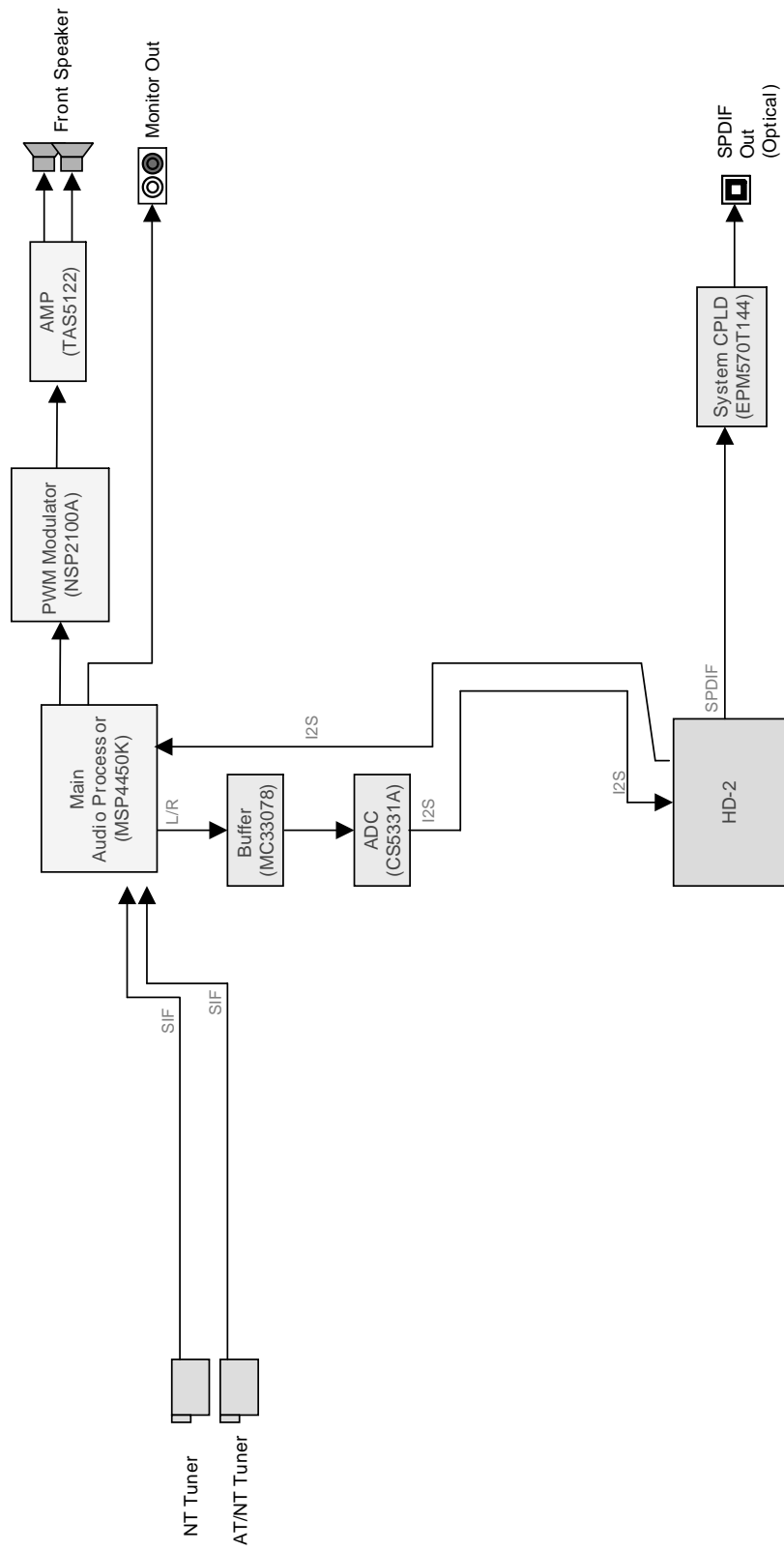
• Audio Path



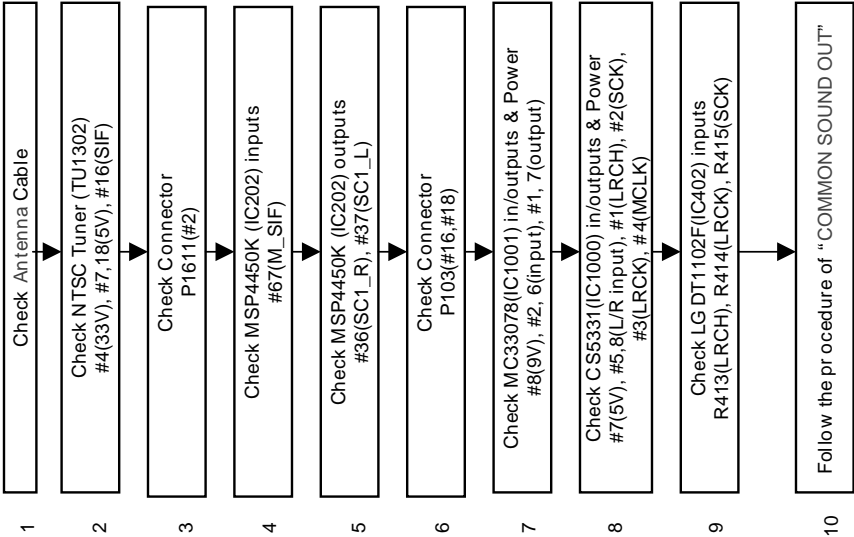
• Common sound out



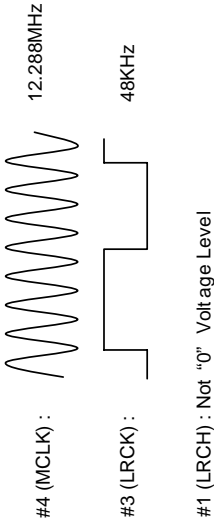
• TV RF NO Sound



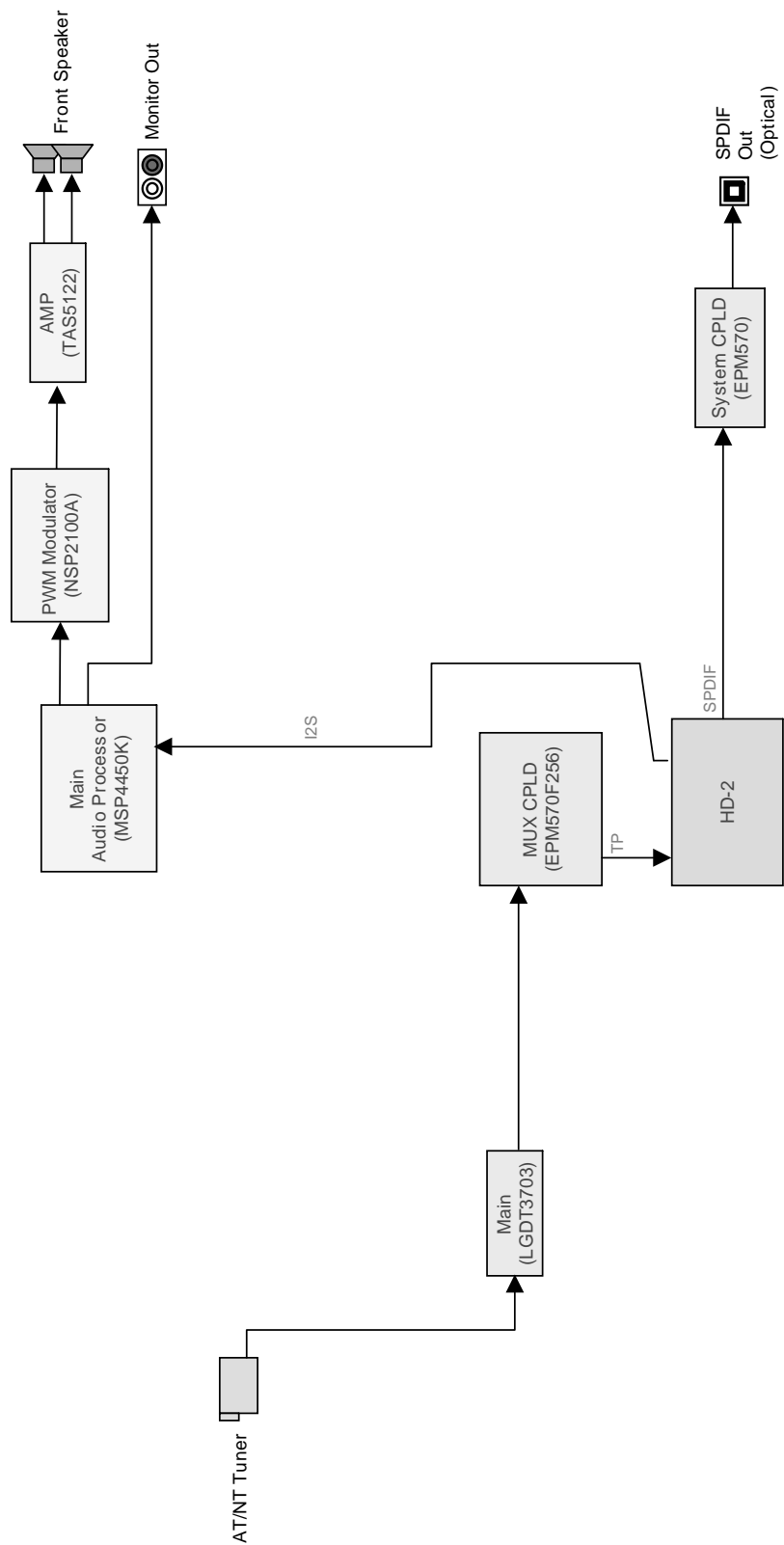
• TV RF NO Sound



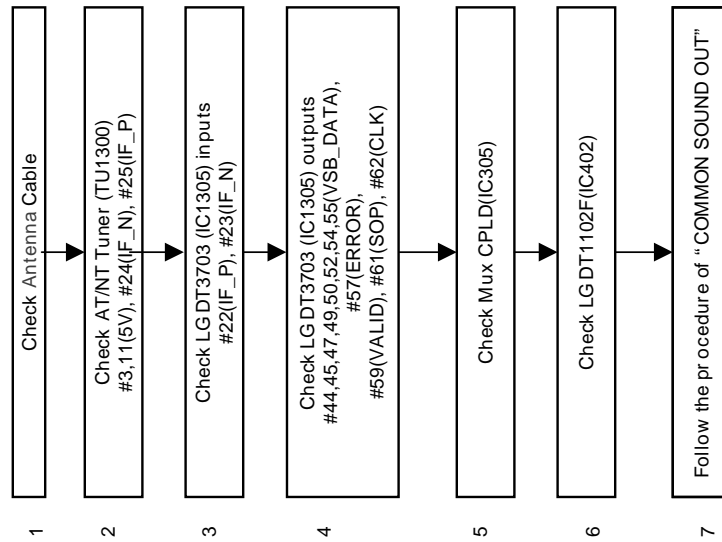
#36 (SC1_R), 37 (SC1_L) : Not "0" Voltage Level, Analog signal



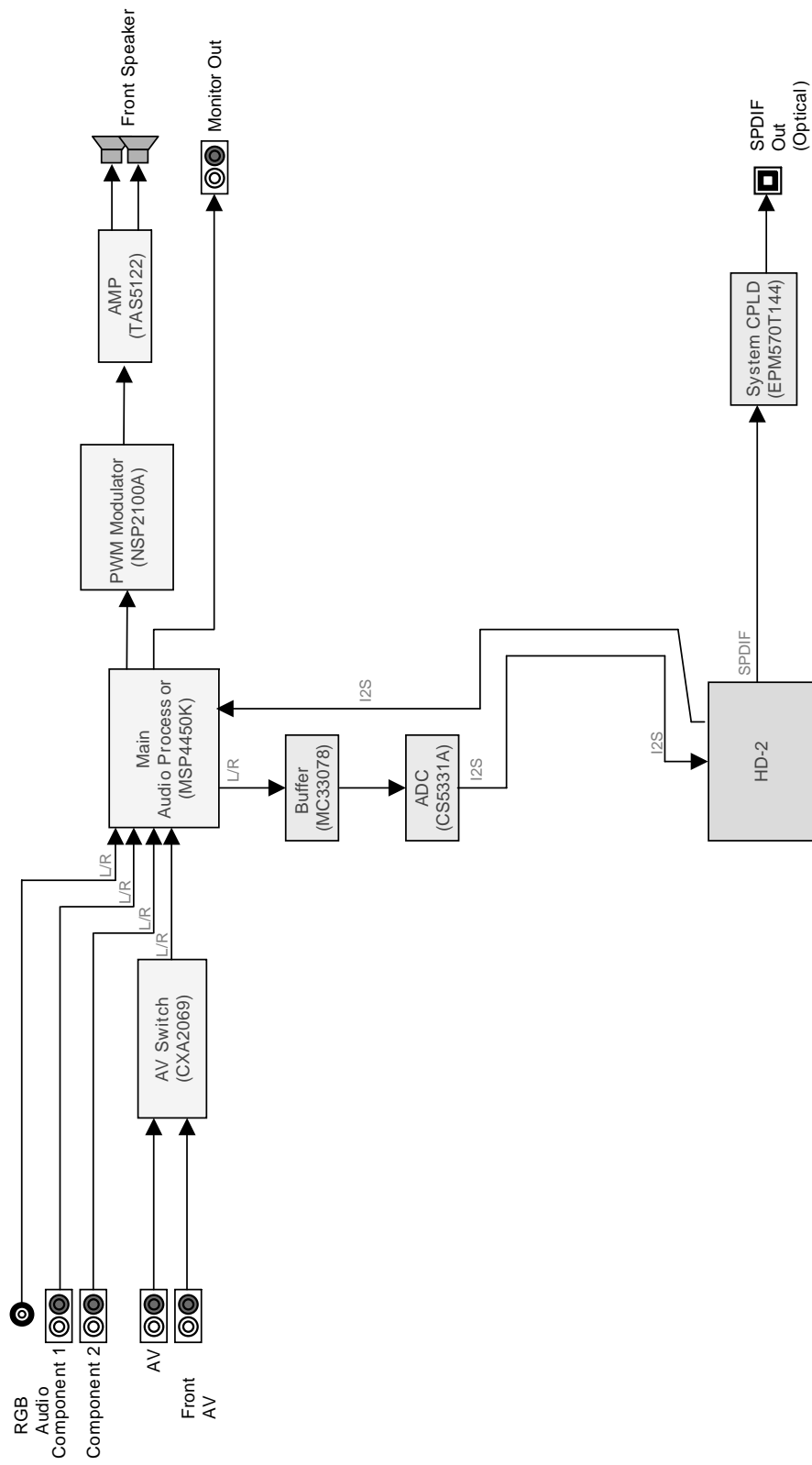
• DTV NO Sound



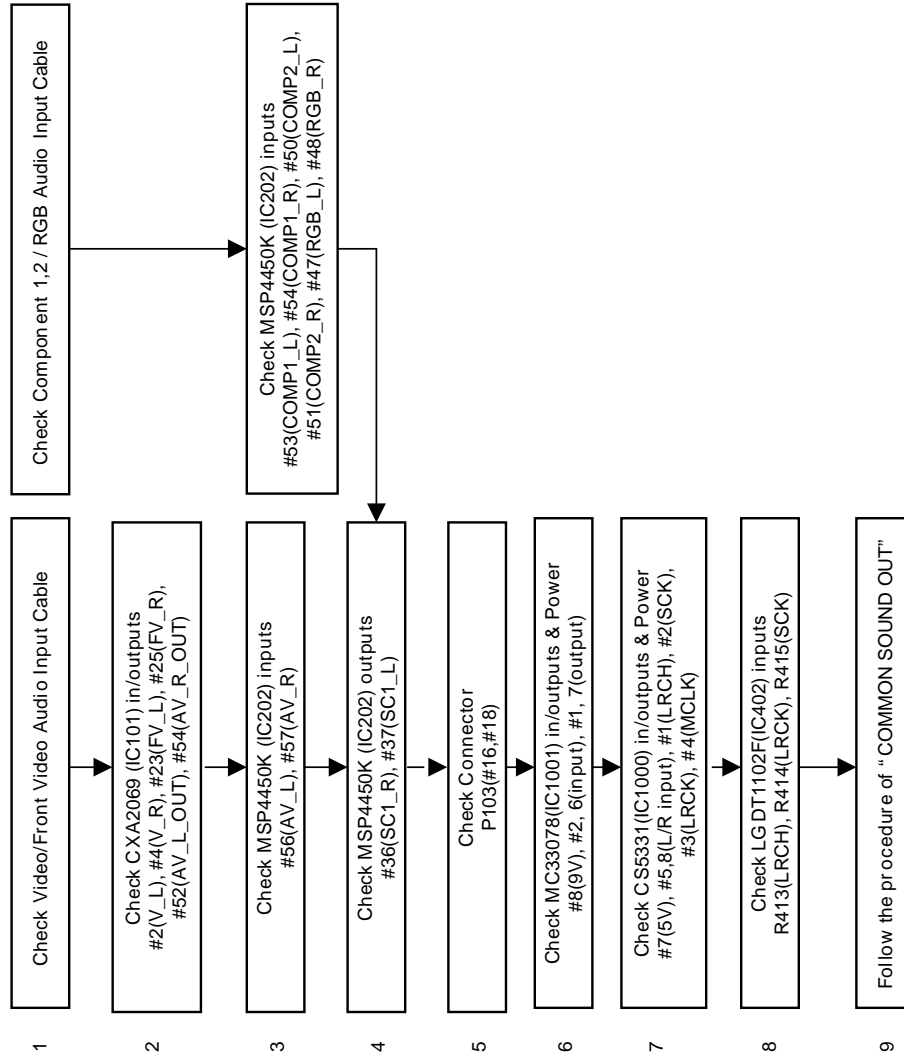
• DTV NO Sound



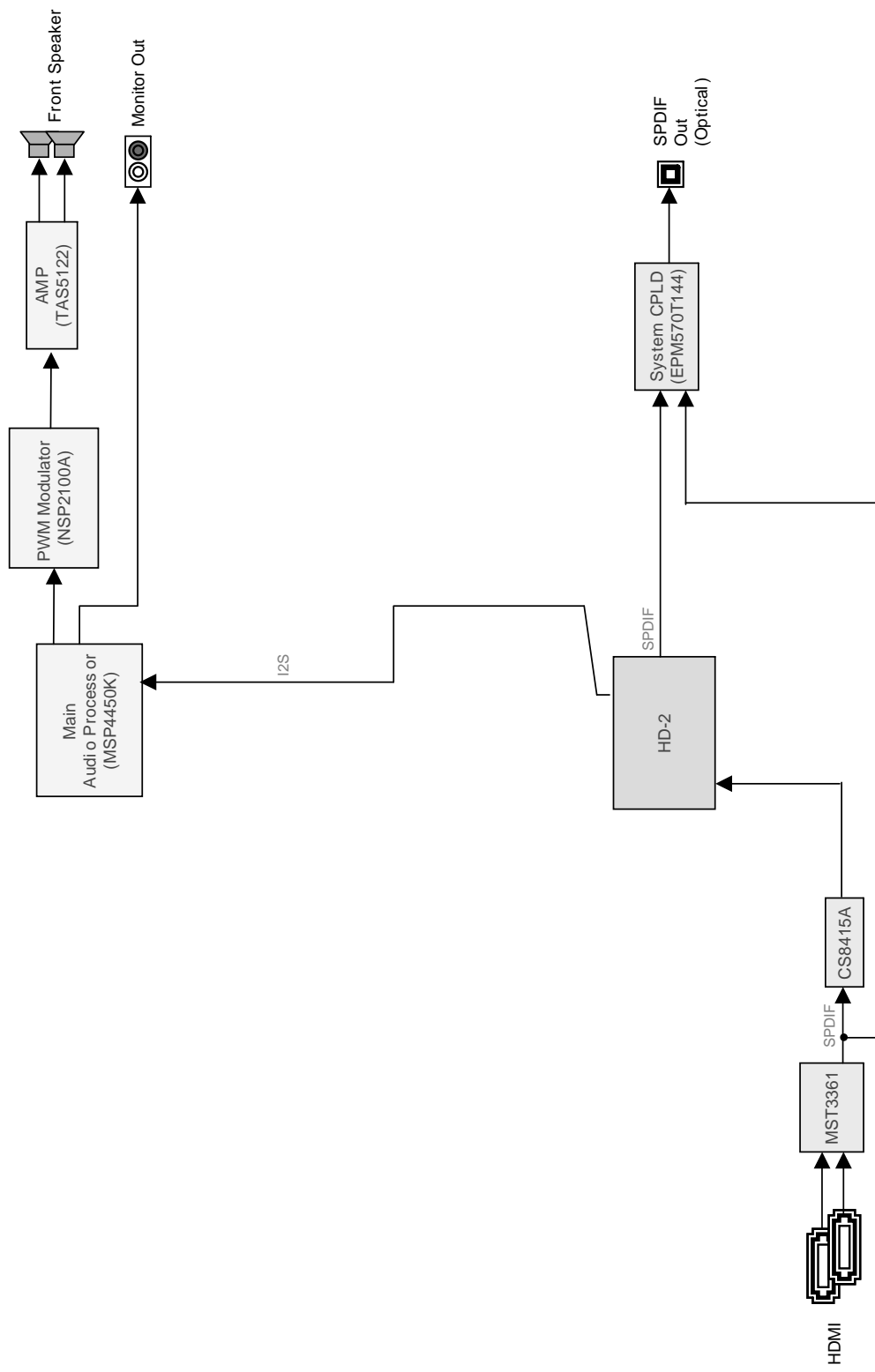
• AV/Component/RGB NO Sound



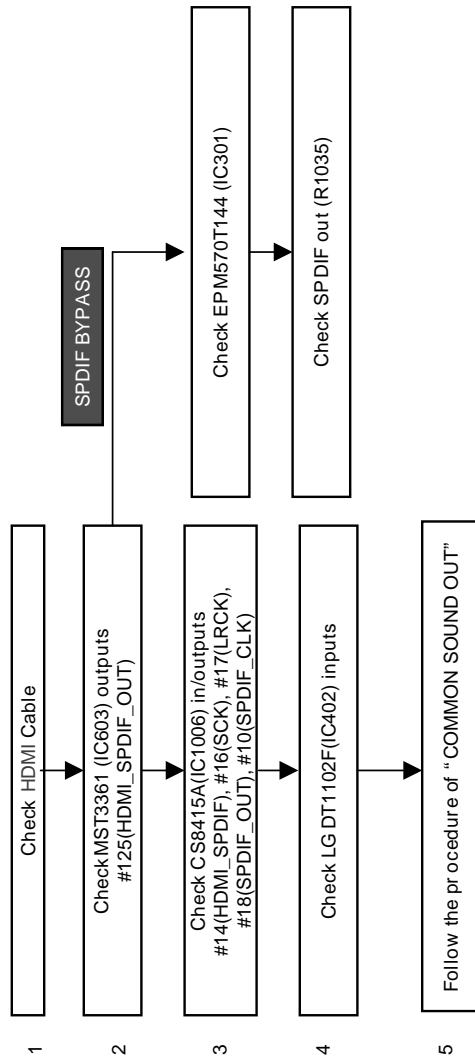
• **AV/Component/RGB NO Sound**



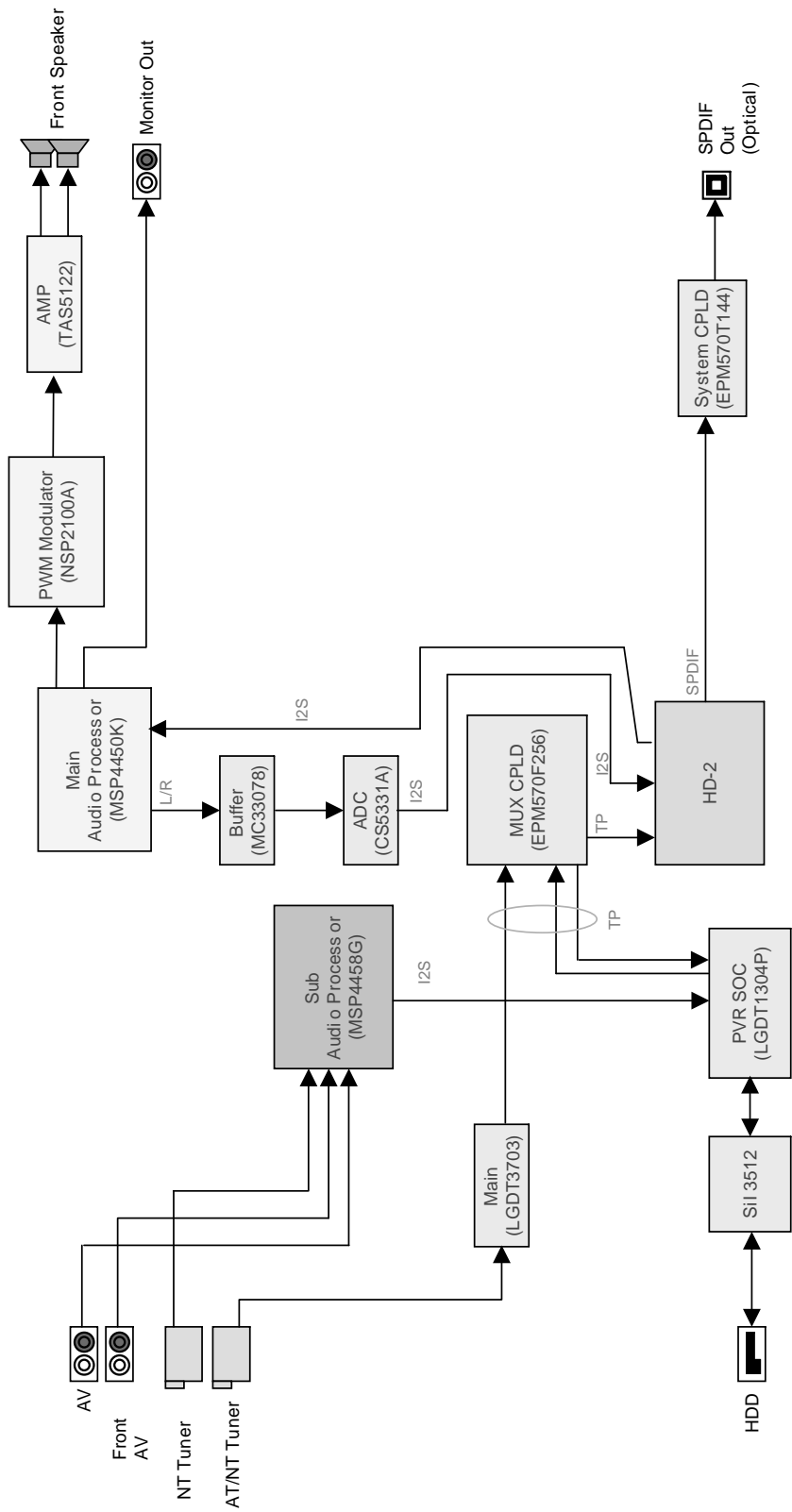
• HDMI NO Sound



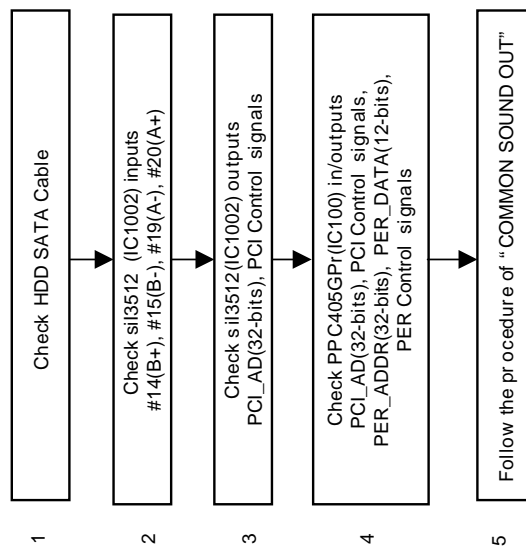
• HDMI NO Sound



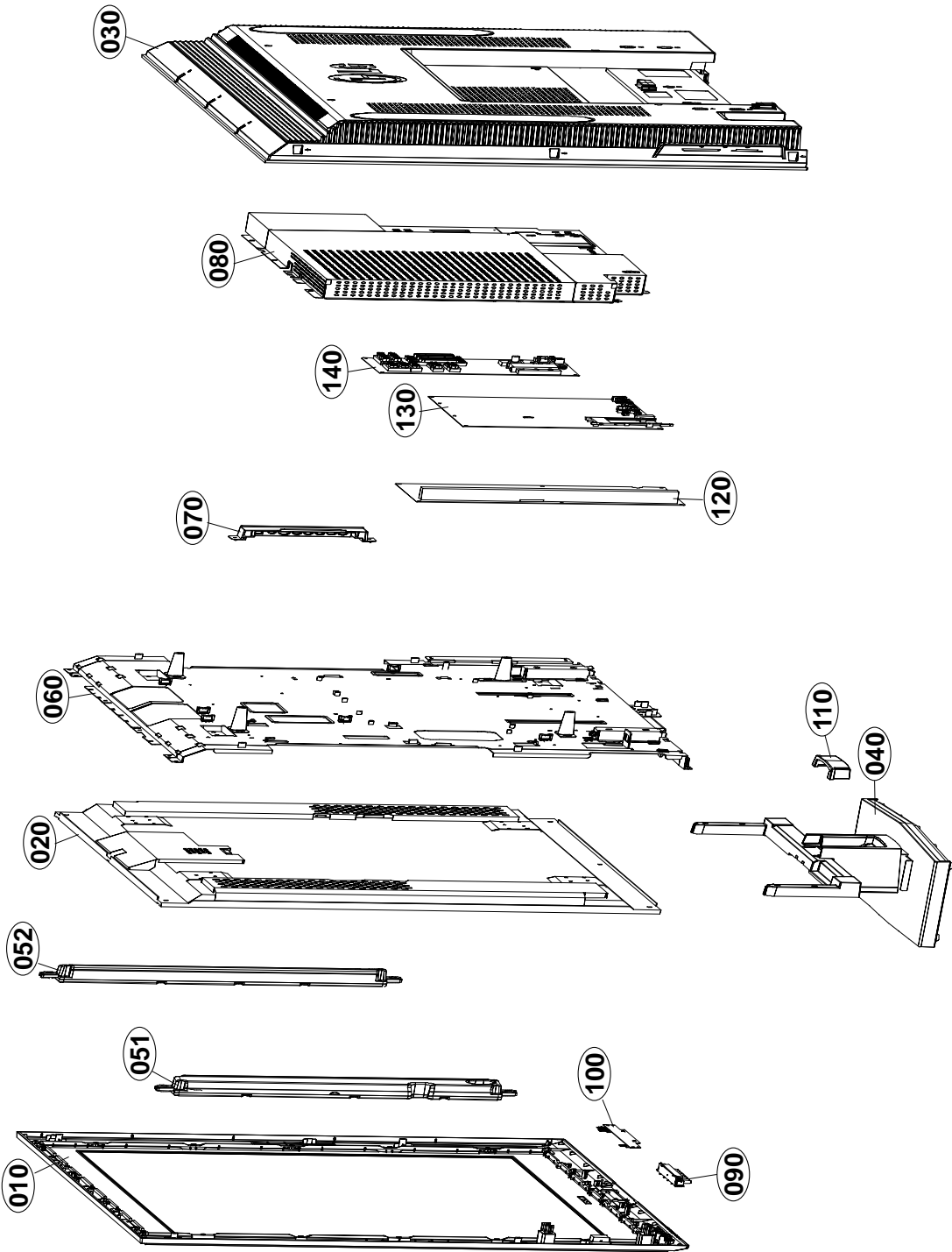
• Record & Play No Sound



- **Record & Play No Sound**



EXPLODED VIEW



EXPLODED VIEW PARTS LIST

| No. | | PART NO. | DESCRIPTION |
|-----|---|-------------|--|
| 010 |  | 30919E0034E | Cover Assembly, 42LB1 BRAND . 42LB1DR-UA |
| | | 30919E0034H | Cover Assembly, 42LB1 BRAND . 42LB1DR-UA(C/SKD) |
| | | 30919E0034B | Cover Assembly, 42LB1 BRAND . 42LB1DRA |
| | | 30919E0034G | Cover Assembly, 42LB1 BRAND . 42LB1DRA-UA(C/SKD) |
| 020 |  | 6304FLP295A | LCD,Module-TFT, LC420W02-B6K1 DRIVER 42.0INCH 1366X768 500CD COLOR |
| | | 6304FLP363A | LCD,Panel-TFT, LC420W02-SLA1 42INCH 1365X768 500CD COLOR 72% - |
| 030 |  | 3809900149B | Cover Assembly, 42LB1 NON 42LB1DRA |
| | | 3809900149E | Cover Assembly, 42LB1 NON 42LB1DR(A)-UA (C/SKD) |
| 040 |  | 3043900021E | Base Assembly, 42LB1DR-UA . SILVER |
| | | 3043900021F | Base Assembly, 42LB1DR-UA . SILVER (C/SKD) |
| | | 3043900021B | Base Assembly, 42LB1DRA-UA . BLACK |
| | | 3043900021D | Base Assembly, 42LB1DRA-UA . BLACK (C/SKD) |
| 051 | | 6401900127G | Speaker Assembly, 42LB1 SIDE RIGHT(42LB1DRA.42LB1D),E2(1800MM) |
| 052 | | 6401900127H | Speaker Assembly, 42LB1 SIDE LEFT(42LB1DRA.42LB1D),E2(400MM) |
| 060 | | 49519S0026N | Plate Assembly, FRAME 42LB1DR(A) (COST UP) |
| | | 49519S0026P | Plate Assembly, FRAME 42LB1DR(A) (C/SKD) (COST UP) |
| 070 | | 68719ST936A | PCB Assembly,Sub, T.T LA61A SUB 42LB1DRA ALUSLLX SIDE A/V BOARD TOTAL |
| 080 | | 49519K0115A | Plate Assembly, SHIELD MAIN DIGITAL 42LB1DRA-UA |
| | | 49519K0115H | Plate Assembly, SHIELD MAIN DIGITAL 42LB1DR(A)-UA (C/SKD) |
| 090 | | 68719ST937A | PCB Assembly,Sub, T.T LA61A SUB 42LB1DRA ALUSLLX CONTROL KEY BOARD TOTAL |
| | | 68719ST937B | PCB Assembly,Sub, T.T LA61A SUB 42LB1DRA ALUSLLX CONTROL KEY FOR C/SKD TOTAL |
| 100 | | 68719ST938A | PCB Assembly,Sub, T.T LA61A SUB 42LB1DRA ALUSLLX INDEX BOARD TOTAL |
| 110 | | 4810900034A | Bracket, 42LB1 AB00EA SUPPORTER CABLE MANAGEMENT ABS MOLD ABS |
| 120 |  | 6709900017A | Power Supply Assembly, YY LCD H3/E2 LCD MODEL LB LC 42INCH 42INCH |
| 130 | | 3313942001A | Main Total Assembly, LA61A DIGITAL BOARD TOTAL 42LB1DRA BRAND- LPL Module |
| | | 3313942001B | Main Total Assembly, LA61A P7 MODULE DIGITAL BOARD TOTAL 42LB1DR/42LB1DRA BRAND |
| 140 | | 68719ST939A | PCB Assembly,Sub, T.T LA61A SUB 42LB1DRA ALUSLLX HDD ASSY TOTAL |
| | | 68719STA42A | PCB Assembly,Sub, T.T LA61A SUB 42LB1DR/42LB1DRA SLUSLLM HDD TOTAL- CSKD |
| 150 | | 68719MT681A | PCB Assembly,Main, T.T LA61A MAIN2 42LB1DRA ALUSLLX ANALOG BOARD TOTAL |

REPLACEMENT PARTS LIST

For Capacitor & Resistors, the characters at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN, CH : Ceramic
CQ : Polyester
CE : Electrolytic
CF : Fixed Film

RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RH : CHIP, Metal Glazed(Chip)
RR : Drawing

| DATE: 2006. 02. 20. | | | | |
|----------------------|-----|----------|-------------|-----------------------------|
| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| DIGITAL BOARD | | | | |
| CAPACITOR | | | | |
| | | C100 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C1001 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |
| | | C1002 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |
| | | C1005 | 0CE107WF6DC | MVK6.3TP16VC100M 100u 20% 1 |
| | | C1012 | 0CE107WF6DC | MVK6.3TP16VC100M 100u 20% 1 |
| | | C1014 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |
| | | C1015 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |
| | | C1022 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C1031 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C1032 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C1045 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C1053 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C1057 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C1058 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C1100 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |
| | | C1105 | 0CE105WK6DC | MVK4.0TP50VC1M 1u 20% 50V 5 |
| | | C1107 | 0CE475WJ6DC | MVK4.0TP35VC4.7M 4.7u 20% 3 |
| | | C1115 | 0CE335WK6D8 | MVK4.0TP50VC3.3M 3.3u 20% 5 |
| | | C1209 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C1216 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C1218 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C123 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C126 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C1320 | 0CE107WF6DC | MVK6.3TP16VC100M 100u 20% 1 |
| | | C1324 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C1325 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C1326 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C1332 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C1334 | 0CE476WK6DC | MVK8.0TP50VC47M 47u 20% 50V |
| | | C1341 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C1342 | 0CE107WF6DC | MVK6.3TP16VC100M 100u 20% 1 |
| | | C1345 | 0CE107WF6DC | MVK6.3TP16VC100M 100u 20% 1 |
| | | C1348 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C1349 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C1358 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C1359 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C1360 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C1361 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C1604 | 0CE337WJ6D8 | MVK12.5TP35VC330M 330u 20% |
| | | C1605 | 0CE337WJ6D8 | MVK12.5TP35VC330M 330u 20% |
| | | C1607 | 0CE477WF6DC | MVK10TP16VC470M 470u 20% 16 |
| | | C1608 | 0CE477WF6DC | MVK10TP16VC470M 470u 20% 16 |
| | | C1613 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C1616 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C1619 | 0CE107WF6DC | MVK6.3TP16VC100M 100u 20% 1 |
| | | C1622 | 0CE107WF6DC | MVK6.3TP16VC100M 100u 20% 1 |
| | | C1623 | 0CE105WK6DC | MVK4.0TP50VC1M 1u 20% 50V 5 |
| | | C1627 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C1638 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C1640 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C1641 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C216 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |
| | | C230 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |
| | | C3039 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |
| | | C304 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C3041 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |
| | | C3077 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C3078 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C308 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C401 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C404 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C461 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |

| DATE: 2006. 02. 20. | | | | |
|---------------------|-----|----------|-------------|-----------------------------|
| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | C463 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |
| | | C481 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C482 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C528 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C531 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |
| | | C534 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |
| | | C601 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C608 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C613 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C617 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C619 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C621 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C623 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C627 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C629 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C637 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C653 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C655 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C666 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C668 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C7002 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C7005 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |
| | | C702 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |
| | | C703 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |
| | | C7043 | 0CE107WF6DC | MVK6.3TP16VC100M 100u 20% 1 |
| | | C7046 | 0CE107WF6DC | MVK6.3TP16VC100M 100u 20% 1 |
| | | C7048 | 0CE107WF6DC | MVK6.3TP16VC100M 100u 20% 1 |
| | | C7049 | 0CE107WF6DC | MVK6.3TP16VC100M 100u 20% 1 |
| | | C7052 | 0CE107WF6DC | MVK6.3TP16VC100M 100u 20% 1 |
| | | C7053 | 0CE107WF6DC | MVK6.3TP16VC100M 100u 20% 1 |
| | | C7054 | 0CE107WF6DC | MVK6.3TP16VC100M 100u 20% 1 |
| | | C709 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C737 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |
| | | C773 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |
| | | C774 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |
| | | C780 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C801 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C803 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C806 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C807 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C810 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C813 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C815 | 0CE107WF6DC | MVK6.3TP16VC100M 100u 20% 1 |
| | | C822 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C827 | 0CE336WH6D8 | MVK6.3TP25VC33M 33u 20% 25V |
| | | C838 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C840 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C9006 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C9015 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C916 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C918 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C919 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C936 | 0CE477WF6DC | MVK10TP16VC470M 470u 20% 16 |
| | | C937 | 0CE107WF6DC | MVK6.3TP16VC100M 100u 20% 1 |
| | | C938 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C944 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C945 | 0CE477WF6DC | MVK10TP16VC470M 470u 20% 16 |
| | | C1004 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1006 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1007 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1008 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1009 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1010 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1011 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1016 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |

| DATE: 2006. 02. 20. | | | | |
|---------------------|-----|----------|-------------|-----------------------------|
| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | C965 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C966 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C967 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C968 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C969 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C970 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C971 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C972 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C973 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C974 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C975 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C976 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C977 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C978 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C979 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C980 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C981 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C982 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C983 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C984 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C985 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C986 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C987 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C988 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C989 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C990 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C991 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C992 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C993 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C994 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C995 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C996 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C997 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C998 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C999 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1000 | OCK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C1003 | OCK470CK41A | C1608C0G1H470JT 47p 5% 50V |
| | | C1013 | OCK470CK41A | C1608C0G1H470JT 47p 5% 50V |
| | | C102 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1036 | OCK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C1037 | OCK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C1038 | OCK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C1039 | OCK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C1046 | OCK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C1051 | OCK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C1056 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1059 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1104 | OCK561CK41A | C1608C0G1H561JT 560p 5% 50V |
| | | C1108 | OCK471CK41A | C1608C0G1H471JT 470p 5% 50V |
| | | C1109 | OCK271CK46A | 0603B271J500CT 270p 5% 50V |
| | | C1110 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1111 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1200 | OCK200CK41A | C1608C0G1H200JT 20p 5% 50V |
| | | C1204 | OCK200CK41A | C1608C0G1H200JT 20p 5% 50V |
| | | C1213 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1217 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1223 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1236 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1237 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1238 | OCK105DF64A | 0805F105Z160CT 1u -20TO+80% |
| | | C124 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1346 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1354 | OCK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C1355 | OCK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C1356 | OCK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C1357 | OCK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C1362 | OCK050CK11A | C1608C0G1H050DT 5p 0.5PF 50 |
| | | C1363 | OCK050CK11A | C1608C0G1H050DT 5p 0.5PF 50 |
| | | C1370 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1386 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1387 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1391 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1392 | OCK105DF64A | 0805F105Z160CT 1u -20TO+80% |
| | | C1395 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |

| DATE: 2006. 02. 20. | | | | |
|---------------------|-----|----------|-------------|-----------------------------|
| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | C1396 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1618 | OCK102CK56A | 0603B102K500CT 1n 10% 50V X |
| | | C1621 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C1625 | OCK102CK56A | 0603B102K500CT 1n 10% 50V X |
| | | C1626 | OCK102CK56A | 0603B102K500CT 1n 10% 50V X |
| | | C1628 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C200 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C206 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C211 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C217 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C218 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C223 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C229 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C231 | OCK150CK41A | C1608C0G1H150JT 15p 5% 50V |
| | | C232 | OCK220CK41A | C1608C0G1H220JT 22p 5% 50V |
| | | C233 | OCK150CK41A | C1608C0G1H150JT 15p 5% 50V |
| | | C234 | OCK150CK41A | C1608C0G1H150JT 15p 5% 50V |
| | | C3000 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C3001 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C3044 | OCK100CK41A | C1608C0G1H100JT 10p 5% 50V |
| | | C3046 | OCK100CK41A | C1608C0G1H100JT 10p 5% 50V |
| | | C3070 | OCK050CK11A | C1608C0G1H050DT 5p 0.5PF 50 |
| | | C3071 | OCK050CK11A | C1608C0G1H050DT 5p 0.5PF 50 |
| | | C3075 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C3076 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C312 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C316 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C317 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C321 | OCK2334F566 | 0805B334K160CT 330n 10% 16V |
| | | C322 | OCK473CH56A | C1608X7R1E473KT 47n 10% 25V |
| | | C323 | OCK2334F566 | 0805B334K160CT 330n 10% 16V |
| | | C324 | OCK2334F566 | 0805B334K160CT 330n 10% 16V |
| | | C326 | OCK221CK41A | C1608C0G1H221JT 220p 5% 50V |
| | | C327 | OCK221CK41A | C1608C0G1H221JT 220p 5% 50V |
| | | C328 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C348 | OCK101CK41A | C1608C0G1H101JT 100p 5% 50V |
| | | C349 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C350 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C480 | OCK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C504 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C508 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C509 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C511 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C517 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C518 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C522 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C526 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C529 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C530 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C532 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C535 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C537 | OCK100CK41A | C1608C0G1H100JT 10p 5% 50V |
| | | C538 | OCK270CK41A | C1608C0G1H270JT 27p 5% 50V |
| | | C542 | OCK150CK41A | C1608C0G1H150JT 15p 5% 50V |
| | | C631 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C632 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C633 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C640 | OCK470CK41A | C1608C0G1H470JT 47p 5% 50V |
| | | C644 | OCK473CH56A | C1608X7R1E473KT 47n 10% 25V |
| | | C646 | OCK102CK56A | 0603B102K500CT 1n 10% 50V X |
| | | C647 | OCK473CH56A | C1608X7R1E473KT 47n 10% 25V |
| | | C649 | OCK473CH56A | C1608X7R1E473KT 47n 10% 25V |
| | | C654 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C656 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C659 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C667 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C672 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C7001 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C7003 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C7006 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C7007 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C7028 | OCK180CK41A | C1608C0G1H180JT 18p 5% 50V |
| | | C7029 | OCK180CK41A | C1608C0G1H180JT 18p 5% 50V |
| | | C708 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |

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|---------------------|-----|----------|-------------|-----------------------------|
| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | C711 | OCK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C718 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C719 | OCK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C720 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C725 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C729 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C730 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C731 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C732 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C733 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C734 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C735 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C779 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C781 | OCK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C784 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C789 | OCK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C794 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C797 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C798 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C799 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C802 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C804 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C808 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C828 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C842 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C844 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C901 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C9016 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C9017 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C902 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C903 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C904 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C905 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C906 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C907 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C908 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C909 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C910 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C911 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C912 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C913 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C914 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C915 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C920 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C929 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C931 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C932 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C933 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C934 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C935 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C940 | OCK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C941 | OCK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C942 | OCK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C943 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C946 | OCK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C957 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C960 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| DIODEs | | | | |
| | | D1300 | ODS113379BA | 1SS133 1200MV 90V 400MA 600 |
| | | D601 | ODD184009AA | KDS184 1200MV 85V 300MA 2A |
| | | D602 | ODD184009AA | KDS184 1200MV 85V 300MA 2A |
| | | D302 | ODRSE00038A | SDC15 1300MV 14.3VTO16.4V 2 |
| | | D303 | ODRSE00038A | SDC15 1300MV 14.3VTO16.4V 2 |
| | | D600 | ODRSE00048A | RCLAMP0504M 1200MV 6V 25V 1 |
| | | D603 | ODRSE00048A | RCLAMP0504M 1200MV 6V 25V 1 |
| | | D604 | ODRSE00048A | RCLAMP0504M 1200MV 6V 25V 1 |
| | | D605 | ODRSE00048A | RCLAMP0504M 1200MV 6V 25V 1 |
| IC | | | | |
| | | IC1000 | OICB533100A | CS5331A-KSR 4.75TO5.25V 48K |
| | | IC603 | OIPRP00696A | MST3361M-LF-110 3.3V_2.5V - |

| DATE: 2006. 02. 20. | | | | |
|---------------------|-----|----------|-------------|-------------------------------|
| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | IC1303 | OIPRP00538A | FSA1156P6X-NL 1.65TO5.5V 40 |
| | | IC203 | OIMCRCY002A | CY2309SC-1HT 3TO3.6V - - - |
| | | IC210 | OIMCRCY002A | CY2309SC-1HT 3TO3.6V - - - |
| | | IC504 | OIMCRCY002A | CY2309SC-1HT 3TO3.6V - - - |
| | | IC100 | OIPRPBM001B | PPC405GPR-3JB266C 1.7TO1.9V |
| | | IC1002 | OIMCR02015A | SII3512ECTU128 1.71TO1.89V |
| | | IC1101 | OISTL00024A | MC14053BDR2G 3TO18V 0.02mA |
| | | IC1202 | OIMCRFA013A | 74LCX244MTC 2TO3.6V 0.01mA |
| | | IC303 | OIMCRFA013A | 74LCX244MTC 2TO3.6V 0.01mA |
| | | IC306 | OISTLPH026A | 74LVC14APW 1.2TO3.6V 0.01mA |
| | | IC1102 | OIPMGNS026A | LM311MX 5V +-15V +-30V 50NA |
| | | IC909 | OIMMR00159A | HY5DU573222FP-33 256MBIT 8M |
| | | IC209 | OIMCRAL021A | AT24CS512W-10SI-2.7 512KBIT |
| | | IC604 | OIMMRCS012B | CAT24WC08W-T(MST3000) 8KBIT |
| | | IC605 | OIMMRAL014B | AT24CO2N-10SI-2.7 2KBIT 256 |
| | | IC606 | OIMMRAL014B | AT24CO2N-10SI-2.7 2KBIT 256 |
| | | IC1603 | OIMI623200B | "M62320P,FP 4.5TO5.5V 0.05mA" |
| | | IC610 | OIPRPFA016A | FMS6407MTC20X-NL 4.75TO5.25 |
| | | IC702 | OIPRPFA015B | "FMS6400CS1X,LF 4.75TO5.25 5" |
| | | IC704 | OIPRPFA015B | "FMS6400CS1X,LF 4.75TO5.25 5" |
| | | IC1602 | OIMCRKE006A | KIA278R05PI 6TO12V 5V 1500M |
| | | IC1003 | OIPMGKE032A | KIA78R09F 10TO25V 9V 8W DPA |
| | | IC1007 | OIPMG00049A | AZ1117H-1.8 3.2TO10V 1.8V - |
| | | IC101 | OIPMG00049A | AZ1117H-1.8 3.2TO10V 1.8V - |
| | | IC1201 | OIMCRSJ001B | SC1565IST-2.5TR 2.2TO5V 2.5 |
| | | IC1300 | OIPMG78403A | AZ1086S-1.8TRE1 3.2TO10V 1. |
| | | IC1301 | OIPMG00049A | AZ1117H-1.8 3.2TO10V 1.8V - |
| | | IC1307 | OIPMGA0010A | AZ1117H-3.3 4.75TO10V 3.3V |
| | | IC1607 | OIPMGKE032A | KIA78R09F 10TO25V 9V 8W DPA |
| | | IC401 | OIPMG78403A | AZ1086S-1.8TRE1 3.2TO10V 1. |
| | | IC403 | OIPMGA0010A | AZ1117H-3.3 4.75TO10V 3.3V |
| | | IC601 | OIPMGA0010A | AZ1117H-3.3 4.75TO10V 3.3V |
| | | IC609 | OIMCRSJ001B | SC1565IST-2.5TR 2.2TO5V 2.5 |
| | | IC707 | OIPMGA0010A | AZ1117H-3.3 4.75TO10V 3.3V |
| | | IC708 | OIPMG00028A | AZ1117H-1.5 3TO10V 1.5V - S |
| | | IC801 | OIPMGA0010A | AZ1117H-3.3 4.75TO10V 3.3V |
| | | IC802 | OIPMG78403A | AZ1086S-1.8TRE1 3.2TO10V 1. |
| | | IC904 | OIMCRSJ001B | SC1565IST-2.5TR 2.2TO5V 2.5 |
| | | IC906 | OIPMG78403A | AZ1086S-1.8TRE1 3.2TO10V 1. |
| | | IC1100 | OIMCRMT003A | MM1108XFFE 4.5TO5.5V 4.4mA |
| | | IC1103 | OIMCRMP006A | PIC18F1220T-I/SO 4.2TO5.5V |
| | | IC1306 | OICTM00006C | - - - TQFP TR 128P |
| | | IC1001 | OISTL00029A | MC3307BDR2G +-5TO+-18V 2mV |
| | | IC301 | OIPRP00687A | EPM570T144C5N 3TO3.6V_2.375 |
| | | IC305 | OIPRP00687B | EPM570F256C5N 3TO3.6V_2.375 |
| | | IC1204 | OIPRPML004B | "MIC2562A-0YM,LF 3.3V_5V - 8" |
| | | IC1205 | OIPRPML004B | "MIC2562A-0YM,LF 3.3V_5V - 8" |
| | | IC1006 | OICB841500B | "CS8415A-CZR 4500MVT05500MV," |
| | | IC201 | OIMMRHY038E | HY57V561620CTP-H 256MBIT 4M |
| | | IC202 | OIMMRHY038E | HY57V561620CTP-H 256MBIT 4M |
| | | IC500 | OIMMR00141A | HY57V641620ETP-6 64MBIT 1MX |
| | | IC501 | OIMMR00141A | HY57V641620ETP-6 64MBIT 1MX |
| | | IC502 | OIMMR00141A | HY57V641620ETP-6 64MBIT 1MX |
| | | IC503 | OIMMR00141A | HY57V641620ETP-6 64MBIT 1MX |
| | | IC703 | OIMMR00080A | HY57V161610ETP-6 16MBIT 512 |
| | | IC706 | OIMMR00080A | HY57V161610ETP-6 16MBIT 512 |
| | | IC1200 | OICTMLG017A | "LGDT3502B 3VTO3600MV,2250MV" |
| | | IC304 | OIPRP00009A | ICL3232CBNZ 3VTO5500MV - SS |
| | | IC803 | OIMCRTH002A | THC63LVD103 3.0TO3.6 1W TQF |
| | | IC1305 | OICTM00006B | LGDT3703D LG SYSTEM IC 128P |
| | | IC206 | OIMCRPH026B | PA9516APW PHILIPS 16P TSSOP |
| | | IC402 | OICTMLG009E | LGDT1102F HD2.4 LG IC 432P |
| | | IC505 | OICTMLG013B | LGDT1901B LG IC SSOP 24P TR |
| | | IC804 | OICTMLG018C | "LGDP4412, IEP3 LG IC 452P,T" |
| | | IC701 | OIPRPNE011B | "UPD64015AGM-UEU-A,LF 3.0TO3" |
| | | IC705 | OIPRPNE011B | "UPD64015AGM-UEU-A,LF 3.0TO3" |
| | | IC908 | OICTM00040A | "LGDT1304P 3.0TO3.6,2.375TO2" |
| | | IC302 | OIKE702900G | KIA7029AF -0.3TO15V 2.9V 50 |
| | | IC1304 | OIPMGON013B | MC34063ADR2G 3TO40V 40V 625 |
| | | IC1302 | OIMCRSH001A | PQ05DZ1U 6TO16V 5V 8W D2PAK |
| | | IC1601 | OIMCRSH001A | PQ05DZ1U 6TO16V 5V 8W D2PAK |
| | | IC907 | OIPMG78391A | SC2595STR 2.3TO5V - - SOIC |
| | | IC204 | OIMMRAM006B | S29JL064H-90TA100 64MBIT - |
| | | IC205 | OIMMRAM006B | S29JL064H-90TA100 64MBIT - |

| DATE: 2006. 02. 20. | | | | |
|------------------------|-----|----------|-------------|-----------------------------|
| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | IC207 | 0IMMRMR027E | MX29LV320CTTC-70G 32MBIT 4M |
| | | IC208 | 0IMMRMR027E | MX29LV320CTTC-70G 32MBIT 4M |
| COIL & CORE & INDUCTOR | | | | |
| | | L1601 | 6140VB0004B | LN-15A1 26uH - - 12X9MM LEA |
| | | L1602 | 6140VB0004B | LN-15A1 26uH - - 12X9MM LEA |
| | | CN300 | 6630G70017A | A02-0915-101 D-SUB 9P 2.54M |
| | | B200 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L1004 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L1100 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L1301 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L1303 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L1308 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L1311 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L1312 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L1315 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L1316 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L1317 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L1318 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L1319 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L1325 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L1326 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L1327 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L1606 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L301 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L401 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L402 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L403 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L404 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L601 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L602 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L603 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L604 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L605 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L606 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L607 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L608 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L612 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L701 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L702 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L703 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L704 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L705 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L706 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L707 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L803 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L804 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L805 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L806 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L900 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L901 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L902 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | B116 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | B201 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L1002 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L1200 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L1201 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L1605 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L501 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L503 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L504 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L611 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L801 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L802 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L807 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L808 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L903 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L904 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | L905 | 0LCML00003B | MLB-201209-0120P-N2 120OHM |
| | | R1660 | 6210TCE0013 | HB-1M1608-121JT 120OHM 1.6X |
| | | R1661 | 6210TCE0013 | HB-1M1608-121JT 120OHM 1.6X |
| | | R203 | 6210TCE0013 | HB-1M1608-121JT 120OHM 1.6X |
| | | R204 | 6210TCE0013 | HB-1M1608-121JT 120OHM 1.6X |

[illegible]

| DATE: 2006. 02. 20. | | | | |
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| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | AR500 | 0RJ0332C687 | RCA86TRJ33R0 33OHM 5% 1/16W |
| | | AR501 | 0RJ0332C687 | RCA86TRJ33R0 33OHM 5% 1/16W |
| | | AR502 | 0RJ0332C687 | RCA86TRJ33R0 33OHM 5% 1/16W |
| | | AR503 | 0RJ0332C687 | RCA86TRJ33R0 33OHM 5% 1/16W |
| | | AR504 | 0RJ0332C687 | RCA86TRJ33R0 33OHM 5% 1/16W |
| | | AR505 | 0RJ0332C687 | RCA86TRJ33R0 33OHM 5% 1/16W |
| | | AR506 | 0RJ0332C687 | RCA86TRJ33R0 33OHM 5% 1/16W |
| | | AR507 | 0RJ0332C687 | RCA86TRJ33R0 33OHM 5% 1/16W |
| | | AR508 | 0RJ0332C687 | RCA86TRJ33R0 33OHM 5% 1/16W |
| | | AR509 | 0RJ0332C687 | RCA86TRJ33R0 33OHM 5% 1/16W |
| | | AR510 | 0RJ0332C687 | RCA86TRJ33R0 33OHM 5% 1/16W |
| | | AR511 | 0RJ0332C687 | RCA86TRJ33R0 33OHM 5% 1/16W |
| | | AR512 | 0RJ0332C687 | RCA86TRJ33R0 33OHM 5% 1/16W |
| | | AR513 | 0RJ0332C687 | RCA86TRJ33R0 33OHM 5% 1/16W |
| | | AR514 | 0RJ0332C687 | RCA86TRJ33R0 33OHM 5% 1/16W |
| | | AR515 | 0RJ0332C687 | RCA86TRJ33R0 33OHM 5% 1/16W |
| | | AR601 | 0RJ0000C687 | RCA86TRJ0000 0OHM 5% 1/16W |
| | | AR602 | 0RJ0000C687 | RCA86TRJ0000 0OHM 5% 1/16W |
| | | AR603 | 0RJ0000C687 | RCA86TRJ0000 0OHM 5% 1/16W |
| | | AR604 | 0RJ0000C687 | RCA86TRJ0000 0OHM 5% 1/16W |
| | | AR605 | 0RJ0000C687 | RCA86TRJ0000 0OHM 5% 1/16W |
| | | AR606 | 0RJ0000C687 | RCA86TRJ0000 0OHM 5% 1/16W |
| | | AR607 | 0RJ0000C687 | RCA86TRJ0000 0OHM 5% 1/16W |
| | | AR608 | 0RJ0000C687 | RCA86TRJ0000 0OHM 5% 1/16W |
| | | AR701 | 0RRZVTA001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR7013 | 0RJ1000C687 | RCA86TRJ100R 100OHM 5% 1/16 |
| | | AR7014 | 0RJ1000C687 | RCA86TRJ100R 100OHM 5% 1/16 |
| | | AR702 | 0RRZVTA001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR703 | 0RRZVTA001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR704 | 0RRZVTA001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR705 | 0RJ1000C687 | RCA86TRJ100R 100OHM 5% 1/16 |
| | | AR706 | 0RJ1000C687 | RCA86TRJ100R 100OHM 5% 1/16 |
| | | AR707 | 0RJ1000C687 | RCA86TRJ100R 100OHM 5% 1/16 |
| | | AR708 | 0RRZVTA001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR709 | 0RRZVTA001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR710 | 0RJ1000C687 | RCA86TRJ100R 100OHM 5% 1/16 |
| | | AR711 | 0RJ1000C687 | RCA86TRJ100R 100OHM 5% 1/16 |
| | | AR712 | 0RJ1000C687 | RCA86TRJ100R 100OHM 5% 1/16 |
| | | AR801 | 0RRZVTA001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR802 | 0RRZVTA001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR803 | 0RRZVTA001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR804 | 0RRZVTA001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR805 | 0RRZVTA001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR806 | 0RRZVTA001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR807 | 0RRZVTA001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR808 | 0RRZVTA001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR809 | 0RRZVTA001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR900 | 0RHZTCZ001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR901 | 0RHZTCZ001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR902 | 0RHZTCZ001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR903 | 0RHZTCZ001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR904 | 0RHZTCZ001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR905 | 0RHZTCZ001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR906 | 0RHZTCZ001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR907 | 0RHZTCZ001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR908 | 0RHZTCZ001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR909 | 0RHZTCZ001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR910 | 0RHZTCZ001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR911 | 0RJ0512C687 | RCA86TRJ51R0 51OHM 5% 1/16W |
| | | AR912 | 0RJ0512C687 | RCA86TRJ51R0 51OHM 5% 1/16W |
| | | AR913 | 0RJ0512C687 | RCA86TRJ51R0 51OHM 5% 1/16W |
| | | AR914 | 0RJ0512C687 | RCA86TRJ51R0 51OHM 5% 1/16W |
| | | AR915 | 0RJ0512C687 | RCA86TRJ51R0 51OHM 5% 1/16W |
| | | AR916 | 0RJ0512C687 | RCA86TRJ51R0 51OHM 5% 1/16W |
| | | AR917 | 0RJ0512C687 | RCA86TRJ51R0 51OHM 5% 1/16W |
| | | AR918 | 0RJ0512C687 | RCA86TRJ51R0 51OHM 5% 1/16W |
| | | AR919 | 0RHZTCZ001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR920 | 0RHZTCZ001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR921 | 0RHZTCZ001D | RCA86TRJ22R0 22OHM 5% 1/16W |
| | | AR923 | 0RJ0512C687 | RCA86TRJ51R0 51OHM 5% 1/16W |
| | | AR924 | 0RJ0512C687 | RCA86TRJ51R0 51OHM 5% 1/16W |
| | | AR925 | 0RJ0512C687 | RCA86TRJ51R0 51OHM 5% 1/16W |
| | | R1302 | 0RD0331H609 | RD-92T1J3R30 330OHM 5% 1/ |
| | | R1634 | 0RD0332H609 | RD-92T1J3R30 330OHM 5% 1/2W |

| DATE: 2006. 02. 20. | | | | |
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| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | R1009 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R1010 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R1011 | 0RJ4702D677 | MCR03EZPJ473 4.7KOHM 5% 1/10W |
| | | R1012 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R1013 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R1014 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R1022 | 0RJ1001D477 | MCR03EZPF102 1KOHM 1% 1/10W |
| | | R1023 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R1026 | 0RJ1005D677 | MCR03EZPJ106 10MOHM 5% 1/10 |
| | | R1029 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R103 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R1030 | 0RJ1201D677 | MCR03EZPJ122 1.2KOHM 5% 1/1 |
| | | R1031 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R1032 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R104 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R107 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R1102 | 0RJ8252D477 | MCR03EZPF8252 82.5KOHM 1% 1 |
| | | R1103 | 0RJ0152D677 | MCR03EZPJ150 15OHM 5% 1/10W |
| | | R1105 | 0RJ1003D477 | MCR03EZPF104 100KOHM 1% 1/1 |
| | | R1107 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R1111 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R1112 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R1115 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R1116 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R112 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R1121 | 0RJ0152D677 | MCR03EZPJ150 15OHM 5% 1/10W |
| | | R1122 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R1123 | 0RJ4700D677 | MCR03EZPJ471 4.7KOHM 5% 1/10 |
| | | R1124 | 0RJ2201D677 | MCR03EZPJ222 2.2KOHM 5% 1/1 |
| | | R1125 | 0RJ4702D677 | MCR03EZPJ473 4.7KOHM 5% 1/10 |
| | | R1126 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R1127 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R1128 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1129 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1130 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R1131 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R1132 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R114 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R119 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R120 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R1200 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R1201 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R1206 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R121 | 0RJ3301D677 | MCR03EZPJ332 3.3KOHM 5% 1/1 |
| | | R1212 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R1213 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R1215 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R1219 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R122 | 0RJ3301D677 | MCR03EZPJ332 3.3KOHM 5% 1/1 |
| | | R123 | 0RJ2201D677 | MCR03EZPJ222 2.2KOHM 5% 1/1 |
| | | R124 | 0RJ2201D677 | MCR03EZPJ222 2.2KOHM 5% 1/1 |
| | | R1241 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1242 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1247 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R1248 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R1249 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R1252 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R1260 | 0RJ2000D677 | MCR03EZPJ201 200OHM 5% 1/10 |
| | | R1261 | 0RJ2000D677 | MCR03EZPJ201 200OHM 5% 1/10 |
| | | R1263 | 0RJ1003D677 | MCR03EZPJ104 100KOHM 5% 1/1 |
| | | R1264 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R1266 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1268 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R1269 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R127 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R1290 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R1292 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R1297 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R1299 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R1300 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R1301 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R1305 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R1306 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R1307 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |

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|---------------------|-----|----------|-------------|------------------------------|
| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | R1308 | 0RJ1201D677 | MCR03EZPJ122 1.2KOHM 5% 1/1 |
| | | R1309 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R131 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R1310 | 0RJ1201D677 | MCR03EZPJ122 1.2KOHM 5% 1/1 |
| | | R1311 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R1313 | 0RJ1800D677 | MCR03EZPJ181 180OHM 5% 1/10 |
| | | R1314 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R1315 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R1316 | 0RJ4700D677 | MCR03EZPJ471 470OHM 5% 1/10 |
| | | R1317 | 0RJ4700D677 | MCR03EZPJ471 470OHM 5% 1/10 |
| | | R1318 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R1322 | 0RJ0822D677 | MCR03EZPJ820 820OHM 5% 1/10W |
| | | R1323 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R1324 | 0RJ2201D677 | MCR03EZPJ222 2.2KOHM 5% 1/1 |
| | | R1329 | 0RJ1201D677 | MCR03EZPJ122 1.2KOHM 5% 1/1 |
| | | R1330 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R1333 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R1339 | 0RJ4700D677 | MCR03EZPJ471 470OHM 5% 1/10 |
| | | R134 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R1341 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R135 | 0RJ2201D677 | MCR03EZPJ222 2.2KOHM 5% 1/1 |
| | | R136 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R1360 | 0RJ3001D677 | MCR03EZPJ302 3KOHM 5% 1/10W |
| | | R1365 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R1367 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R1369 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R1376 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R1387 | 0RJ3301D677 | MCR03EZPJ332 3.3KOHM 5% 1/1 |
| | | R1391 | 0RJ3301D677 | MCR03EZPJ332 3.3KOHM 5% 1/1 |
| | | R140 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R142 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R146 | 0RJ2201D677 | MCR03EZPJ222 2.2KOHM 5% 1/1 |
| | | R147 | 0RJ2201D677 | MCR03EZPJ222 2.2KOHM 5% 1/1 |
| | | R149 | 0RJ2201D677 | MCR03EZPJ222 2.2KOHM 5% 1/1 |
| | | R150 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R152 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R153 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R154 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R155 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R156 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R158 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R159 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R160 | 0RJ3001D677 | MCR03EZPJ302 3KOHM 5% 1/10W |
| | | R1616 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R1617 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R1618 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R1619 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R1620 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R1621 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R1622 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R1641 | 0RJ1202D677 | MCR03EZPJ123 12KOHM 5% 1/10 |
| | | R1642 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R1650 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R1690 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R1696 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R1805 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R1806 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R200 | 0RJ0272D677 | MCR03EZPJ270 27OHM 5% 1/10W |
| | | R201 | 0RJ0272D677 | MCR03EZPJ270 27OHM 5% 1/10W |
| | | R212 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R213 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R219 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R220 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R223 | 0RJ1202D677 | MCR03EZPJ123 12KOHM 5% 1/10 |
| | | R224 | 0RJ1202D677 | MCR03EZPJ123 12KOHM 5% 1/10 |
| | | R230 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R231 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R235 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R236 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R3000 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R3001 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R3002 | 0RJ0822D677 | MCR03EZPJ820 820OHM 5% 1/10W |
| | | R3003 | 0RJ0822D677 | MCR03EZPJ820 820OHM 5% 1/10W |
| | | R3074 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |

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| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | R3075 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R3079 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R3080 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R3084 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R316 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R321 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R331 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R332 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R333 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R334 | 0RJ2200D677 | MCR03EZPJ221 220OHM 5% 1/10 |
| | | R335 | 0RJ2200D677 | MCR03EZPJ221 220OHM 5% 1/10 |
| | | R346 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R347 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R348 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R385 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R387 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R388 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R389 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R392 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R399 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R401 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R403 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R404 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R405 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R406 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R407 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R415 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R416 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R417 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R418 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R421 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R422 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R430 | 0RJ0752D677 | MCR03EZPJ750 75OHM 5% 1/10W |
| | | R431 | 0RJ0752D677 | MCR03EZPJ750 75OHM 5% 1/10W |
| | | R432 | 0RJ0752D677 | MCR03EZPJ750 75OHM 5% 1/10W |
| | | R433 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R434 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R436 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R445 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R452 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R453 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R454 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R455 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R456 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R461 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R505 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R516 | 0RJ0272D677 | MCR03EZPJ270 27OHM 5% 1/10W |
| | | R517 | 0RJ0272D677 | MCR03EZPJ270 27OHM 5% 1/10W |
| | | R6010 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R6012 | 0RJ2001D677 | MCR03EZPJ202 2KOHM 5% 1/10W |
| | | R6013 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R6015 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R6016 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R6017 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R6018 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R6019 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R6057 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R6058 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R629 | 0RJ3900D677 | MCR03EZPJ391 390OHM 5% 1/10 |
| | | R635 | 0RJ0682D677 | MCR03EZPJ680 68OHM 5% 1/10W |
| | | R638 | 0RJ0682D677 | MCR03EZPJ680 68OHM 5% 1/10W |
| | | R640 | 0RJ0682D677 | MCR03EZPJ680 68OHM 5% 1/10W |
| | | R641 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R642 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R643 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R646 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R647 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R650 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R654 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R658 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R660 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R664 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R679 | 0RJ2001D677 | MCR03EZPJ202 2KOHM 5% 1/10W |
| | | R680 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |

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|---------------------|-----|----------|-------------|-----------------------------|
| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | R703 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R714 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R715 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R716 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R717 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R718 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R719 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R720 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R724 | 0RJ6200D677 | MCR03EZPJ621 620OHM 5% 1/10 |
| | | R730 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R737 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R738 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R739 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R745 | 0RJ3300D677 | MCR03EZPJ331 330OHM 5% 1/10 |
| | | R756 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R757 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R758 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R759 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R760 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R761 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R762 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R763 | 0RJ2000D677 | MCR03EZPJ201 200OHM 5% 1/10 |
| | | R764 | 0RJ2000D677 | MCR03EZPJ201 200OHM 5% 1/10 |
| | | R765 | 0RJ2000D677 | MCR03EZPJ201 200OHM 5% 1/10 |
| | | R766 | 0RJ6200D677 | MCR03EZPJ621 620OHM 5% 1/10 |
| | | R770 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R781 | 0RJ5101D677 | MCR03EZPJ512 5.1KOHM 5% 1/1 |
| | | R782 | 0RJ2201D677 | MCR03EZPJ222 2.2KOHM 5% 1/1 |
| | | R783 | 0RJ2000D677 | MCR03EZPJ201 200OHM 5% 1/10 |
| | | R784 | 0RJ2000D677 | MCR03EZPJ201 200OHM 5% 1/10 |
| | | R785 | 0RJ2000D677 | MCR03EZPJ201 200OHM 5% 1/10 |
| | | R800 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R818 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R825 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R832 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R845 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R847 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R848 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R849 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R850 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R865 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R866 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R867 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R868 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R869 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R874 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R877 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R878 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R896 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R897 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R898 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R9001 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R9002 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R9005 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R9006 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R9010 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R9011 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R9012 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R9013 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R9014 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R9017 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R9018 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R9022 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R9035 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R9036 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R9038 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R9039 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R9049 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R9050 | 0RJ0102D677 | MCR03EZPJ100 10OHM 5% 1/10W |
| | | R9051 | 0RJ0102D677 | MCR03EZPJ100 10OHM 5% 1/10W |
| | | R915 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R916 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R917 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R921 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |

| DATE: 2006. 02. 20. | | | | |
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| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | R925 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R926 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R935 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R938 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R939 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R945 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R946 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R949 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R950 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R951 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R962 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R963 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R964 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R965 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R966 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R969 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R972 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R985 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R988 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R989 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R992 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R993 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R996 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R997 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | AR100 | 0RJ3001D605 | MCR03EZPJ302 3KOHM 5% 1/10W |
| | | AR101 | 0RJ3001D605 | MCR03EZPJ302 3KOHM 5% 1/10W |
| | | AR102 | 0RJ3001D605 | MCR03EZPJ302 3KOHM 5% 1/10W |
| | | AR103 | 0RJ3001D605 | MCR03EZPJ302 3KOHM 5% 1/10W |
| | | AR104 | 0RJ3001D605 | MCR03EZPJ302 3KOHM 5% 1/10W |
| | | AR105 | 0RJ3001D605 | MCR03EZPJ302 3KOHM 5% 1/10W |
| | | AR106 | 0RJ3001D605 | MCR03EZPJ302 3KOHM 5% 1/10W |
| | | AR107 | 0RJ3001D605 | MCR03EZPJ302 3KOHM 5% 1/10W |
| | | AR108 | 0RJ3001D605 | MCR03EZPJ302 3KOHM 5% 1/10W |
| | | AR109 | 0RJ3001D605 | MCR03EZPJ302 3KOHM 5% 1/10W |
| | | AR110 | 0RJ3001D605 | MCR03EZPJ302 3KOHM 5% 1/10W |
| | | AR111 | 0RJ3001D605 | MCR03EZPJ302 3KOHM 5% 1/10W |
| | | AR112 | 0RJ3001D605 | MCR03EZPJ302 3KOHM 5% 1/10W |
| | | AR113 | 0RJ3001D605 | MCR03EZPJ302 3KOHM 5% 1/10W |
| | | AR114 | 0RJ3001D605 | MCR03EZPJ302 3KOHM 5% 1/10W |
| | | AR115 | 0RJ3001D605 | MCR03EZPJ302 3KOHM 5% 1/10W |
| | | R1001 | 0RJ1500D677 | MCR03EZPJ151 150OHM 5% 1/10 |
| | | R1002 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R1003 | 0RJ6801D677 | MCR03EZPJ682 6.8KOHM 5% 1/1 |
| | | R1004 | 0RJ2700D677 | MCR03EZPJ271 270OHM 5% 1/10 |
| | | R1005 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R1006 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R1007 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R1008 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R101 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R1015 | 0RJ6801D677 | MCR03EZPJ682 6.8KOHM 5% 1/1 |
| | | R1016 | 0RJ2700D677 | MCR03EZPJ271 270OHM 5% 1/10 |
| | | R1017 | 0RJ1500D677 | MCR03EZPJ151 150OHM 5% 1/10 |
| | | R1018 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R1019 | 0RJ3300D677 | MCR03EZPJ331 330OHM 5% 1/10 |
| | | R102 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R1024 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R1027 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R1028 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R1033 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R1034 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R1035 | 0RJ0272D677 | MCR03EZPJ270 27OHM 5% 1/10W |
| | | R1038 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R1039 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R1040 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R1041 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R105 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R106 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R1104 | 0RJ5600D677 | MCR03EZPJ561 560OHM 5% 1/10 |
| | | R1108 | 0RJ3303D677 | MCR03EZPJ334 330KOHM 5% 1/1 |
| | | R1109 | 0RJ2200D677 | MCR03EZPJ221 220OHM 5% 1/10 |
| | | R111 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R1110 | 0RJ4700D677 | MCR03EZPJ471 470OHM 5% 1/10 |
| | | R1113 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R1114 | 0RJ2202D677 | MCR03EZPJ223 22KOHM 5% 1/10 |

| | | | | DATE: 2006. 02. 20. |
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| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | R1117 | 0RJ8200D677 | MCR03EZPJ821 820OHM 5% 1/10 |
| | | R1118 | 0RJ0562D677 | MCR03EZPJ560 560OHM 5% 1/10W |
| | | R1119 | 0RJ5600D677 | MCR03EZPJ561 560OHM 5% 1/10 |
| | | R1120 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R1203 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R1207 | 0RJ5101D677 | MCR03EZPJ512 5.1KOHM 5% 1/1 |
| | | R1208 | 0RJ3002D677 | MCR03EZPJ303 30KOHM 5% 1/10 |
| | | R1209 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R1210 | 0RJ1004D677 | MCR03EZPJ105 1MOHM 5% 1/10W |
| | | R1211 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R1214 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R1216 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R1217 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R1218 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R1220 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1221 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1222 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1223 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1224 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1225 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1226 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1227 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1228 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1229 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1230 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1231 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1232 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1233 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1234 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1235 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1236 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1237 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1238 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R1239 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R1240 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1243 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1244 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R1246 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R125 | 0RJ2201D677 | MCR03EZPJ222 2.2KOHM 5% 1/1 |
| | | R1253 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R1254 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R1255 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R1257 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R1258 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R1259 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R1265 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R128 | 0RJ2201D677 | MCR03EZPJ222 2.2KOHM 5% 1/1 |
| | | R1291 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R1293 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R1294 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R1295 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R1296 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R130 | 0RJ2201D677 | MCR03EZPJ222 2.2KOHM 5% 1/1 |
| | | R132 | 0RJ2201D677 | MCR03EZPJ222 2.2KOHM 5% 1/1 |
| | | R1325 | 0RJ5602D477 | MCR03EZPF563 56KOHM 1% 1/10 |
| | | R1327 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R133 | 0RJ2201D677 | MCR03EZPJ222 2.2KOHM 5% 1/1 |
| | | R1348 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R1349 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R1350 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R1351 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R1352 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R1355 | 0RJ1001D677 | MCR03EZPJ |

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|---------------------|-----|----------|-------------|-----------------------------|
| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | R221 | 0RJ3301D677 | MCR03EZPJ332 3.3KOHM 5% 1/1 |
| | | R222 | 0RJ3301D677 | MCR03EZPJ332 3.3KOHM 5% 1/1 |
| | | R225 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R226 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R227 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R228 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R229 | 0RJ3301D677 | MCR03EZPJ332 3.3KOHM 5% 1/1 |
| | | R232 | 0RJ3301D677 | MCR03EZPJ332 3.3KOHM 5% 1/1 |
| | | R233 | 0RJ3301D677 | MCR03EZPJ332 3.3KOHM 5% 1/1 |
| | | R234 | 0RJ3301D677 | MCR03EZPJ332 3.3KOHM 5% 1/1 |
| | | R237 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R238 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R239 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R240 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R241 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R242 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R243 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R3004 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R3005 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R302 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R303 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R3070 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R3071 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R3076 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R3077 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R3078 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R308 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R309 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R310 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R311 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R312 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R313 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R314 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R315 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R317 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R318 | 0RJ3300D677 | MCR03EZPJ331 330OHM 5% 1/10 |
| | | R319 | 0RJ3300D677 | MCR03EZPJ331 330OHM 5% 1/10 |
| | | R320 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R322 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R323 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R324 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R325 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R326 | 0RJ1602D677 | MCR03EZPJ163 16KOHM 5% 1/10 |
| | | R327 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R328 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R329 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R330 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R336 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R337 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R339 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R340 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R341 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R342 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R343 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R344 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R345 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R349 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R350 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R351 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R352 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R353 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R354 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R355 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R356 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R357 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R358 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R362 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R363 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R364 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R369 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R370 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R371 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R372 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R373 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |

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|---------------------|-----|----------|-------------|-----------------------------|
| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | R376 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R377 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R380 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R381 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R382 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R383 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R384 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R386 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R394 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R395 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R396 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R398 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R408 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R409 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R423 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R424 | 0RJ0562D677 | MCR03EZPJ560 56OHM 5% 1/10W |
| | | R425 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R426 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R427 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R428 | 0RJ1820D477 | MCR03EZPJ1820 182OHM 1% 1/1 |
| | | R435 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R438 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R439 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R440 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R441 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R442 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R444 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R451 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R457 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R500 | 0RJ0272D677 | MCR03EZPJ270 27OHM 5% 1/10W |
| | | R501 | 0RJ0272D677 | MCR03EZPJ270 27OHM 5% 1/10W |
| | | R502 | 0RJ0272D677 | MCR03EZPJ270 27OHM 5% 1/10W |
| | | R503 | 0RJ0272D677 | MCR03EZPJ270 27OHM 5% 1/10W |
| | | R504 | 0RJ2202D677 | MCR03EZPJ223 22KOHM 5% 1/10 |
| | | R506 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R507 | 0RJ0272D677 | MCR03EZPJ270 27OHM 5% 1/10W |
| | | R508 | 0RJ2201D677 | MCR03EZPJ222 2.2KOHM 5% 1/1 |
| | | R509 | 0RJ7500D677 | MCR03EZPJ751 750OHM 5% 1/10 |
| | | R510 | 0RJ2201D677 | MCR03EZPJ222 2.2KOHM 5% 1/1 |
| | | R511 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R513 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R514 | 0RJ0562D677 | MCR03EZPJ560 56OHM 5% 1/10W |
| | | R515 | 0RJ0562D677 | MCR03EZPJ560 56OHM 5% 1/10W |
| | | R518 | 0RJ0562D677 | MCR03EZPJ560 56OHM 5% 1/10W |
| | | R519 | 0RJ2200D677 | MCR03EZPJ221 220OHM 5% 1/10 |
| | | R6001 | 0RJ0102D677 | MCR03EZPJ100 10OHM 5% 1/10W |
| | | R6002 | 0RJ0102D677 | MCR03EZPJ100 10OHM 5% 1/10W |
| | | R6003 | 0RJ0102D677 | MCR03EZPJ100 10OHM 5% 1/10W |
| | | R6004 | 0RJ0102D677 | MCR03EZPJ100 10OHM 5% 1/10W |
| | | R6005 | 0RJ0102D677 | MCR03EZPJ100 10OHM 5% 1/10W |
| | | R6006 | 0RJ0102D677 | MCR03EZPJ100 10OHM 5% 1/10W |
| | | R6007 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R6008 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R6011 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R6023 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R6024 | 0RJ0332D677 | MCR03EZPJ330 33OHM 5% 1/10W |
| | | R6029 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R6030 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R6031 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R6032 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R6053 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R6054 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R6055 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R6056 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R6059 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R609 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R610 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R611 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R612 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R613 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R615 | 0RJ3301D677 | MCR03EZPJ332 3.3KOHM 5% 1/1 |
| | | R616 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R625 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R627 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |

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| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | R936 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R937 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R940 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R941 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R942 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R943 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R944 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R947 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R948 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R960 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R967 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R968 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R970 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R971 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R973 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R974 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R976 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R977 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R978 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R979 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R980 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R981 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R982 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R983 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R984 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R986 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R987 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R990 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R991 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R994 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R995 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R998 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R999 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| OTHERs | | | | |
| | | X1000 | 6212AB2872A | HC49SM 25MHZ 50PPM 20p HC49 |
| | | X1100 | 6212AB2015E | HC-49/SM 1MHZ 30PPM 1MHZ 30 |
| | | X1200 | 6212AC2001D | HC-49/SM 14MHZ 30PPM 14MHZ |
| | | X601 | 6202TST001A | SX-1 14.31818MHZ 30PPM 14.3 |
| | | X701 | 6212AB2873A | HC-49/SM 24.576MHZ 30PPM 24 |
| | | X702 | 6212AB2873A | HC-49/SM 24.576MHZ 30PPM 24 |
| | | D1000 | 0DL233309AC | SAM2333 RED/Y-GREEN 2.7V 2. |
| | | D1301 | 0DL233309AC | SAM2333 RED/Y-GREEN 2.7V 2. |
| | | D1303 | 0DL233309AC | SAM2333 RED/Y-GREEN 2.7V 2. |
| | | D1601 | 0DL233309AC | SAM2333 RED/Y-GREEN 2.7V 2. |
| | | D1602 | 0DL233309AC | SAM2333 RED/Y-GREEN 2.7V 2. |
| | | D1603 | 0DL233309AC | SAM2333 RED/Y-GREEN 2.7V 2. |
| | | D1604 | 0DL233309AC | SAM2333 RED/Y-GREEN 2.7V 2. |
| | | D300 | 0DL233309AC | SAM2333 RED/Y-GREEN 2.7V 2. |
| | | D301 | 0DL233309AC | SAM2333 RED/Y-GREEN 2.7V 2. |
| | | X200 | 6204B48360A | SCO-103-33.3300MHZ 33.33MHZ |
| | | X3070 | 6204B47985P | BMS-873R 25MHZ 30PPM 3.3V 0 |
| | | X3071 | 6204B47985P | BMS-873R 25MHZ 30PPM 3.3V 0 |
| | | X500 | 6204B62705A | VCXO 27MHZ 100PPM 3.3V 0.00 |
| | | IC1604 | 0IPRPN5054A | LM75CIMX-3 3TO5.5V SOP R/TP |
| | | P1613 | 6630CE00168 | 10003526-050CA PCMCIA 68P A |
| | | SW301 | 6600VR1004A | SKHMPWE010 1C1P 12VDC 0.05A |
| | | TU1302 | 6700NF0024A | ENG36A54GF NTSC - - - - HOR |
| | | TU1300 | 6700AB0001A | ATSC - - - - HORIZONTAL |
| | | VR601 | 6102W5V016A | AVRL161A1R1NT 10V - 1.1p 1. |
| | | VR602 | 6102W5V016A | AVRL161A1R1NT 10V - 1.1p 1. |
| | | VR603 | 6102W5V016A | AVRL161A1R1NT 10V - 1.1p 1. |
| | | VR604 | 6102W5V016A | AVRL161A1R1NT 10V - 1.1p 1. |
| ANALOG BOARD | | | | |
| CAPACITOR | | | | |
| | | C101 | 0CE105WK6DC | MVK4.0TP50VC1M 1u 20% 50V 5 |
| | | C105 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |
| | | C106 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |
| | | C107 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C109 | 0CE225WK6DC | MVK4.0TP50VC2.2M 2.2u 20% 5 |

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| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | C110 | 0CE105WK6DC | MVK4.0TP50VC1M 1u 20% 50V 5 |
| | | C112 | 0CE225WK6DC | MVK4.0TP50VC2.2M 2.2u 20% 5 |
| | | C115 | 0CE105WK6DC | MVK4.0TP50VC1M 1u 20% 50V 5 |
| | | C116 | 0CE227WF6DC | MVK8.0TP16VC220M 220u 20% 1 |
| | | C117 | 0CE227WF6DC | MVK8.0TP16VC220M 220u 20% 1 |
| | | C121 | 0CE225WK6DC | MVK4.0TP50VC2.2M 2.2u 20% 5 |
| | | C122 | 0CE225WK6DC | MVK4.0TP50VC2.2M 2.2u 20% 5 |
| | | C126 | 0CE105WK6DC | MVK4.0TP50VC1M 1u 20% 50V 5 |
| | | C127 | 0CE105WK6DC | MVK4.0TP50VC1M 1u 20% 50V 5 |
| | | C203 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |
| | | C208 | 0CE335WK6D8 | MVK4.0TP50VC3.3M 3.3u 20% 5 |
| | | C220 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |
| | | C232 | 0CE335WK6D8 | MVK4.0TP50VC3.3M 3.3u 20% 5 |
| | | C234 | 0CE107WF6DC | MVK6.3TP16VC100M 100u 20% 1 |
| | | C235 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C237 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C238 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |
| | | C245 | 0CE335WK6D8 | MVK4.0TP50VC3.3M 3.3u 20% 5 |
| | | C247 | 0CE226WF6DC | MVK5.0TP16VC22M 22u 20% 16V |
| | | C263 | 0CE335WK6D8 | MVK4.0TP50VC3.3M 3.3u 20% 5 |
| | | C265 | 0CE107WF6DC | MVK6.3TP16VC100M 100u 20% 1 |
| | | C266 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C271 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C272 | 0CE475WK6DC | MVK5.0TP50VC4.7M 4.7u 20% 5 |
| | | C273 | 0CE475WK6DC | MVK5.0TP50VC4.7M 4.7u 20% 5 |
| | | C302 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C305 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C311 | 0CE227SF6DC | MVG6.3TP16VC220M 220u 20% 1 |
| | | C313 | 0CE227SF6DC | MVG6.3TP16VC220M 220u 20% 1 |
| | | C314 | 0CE227SF6DC | MVG6.3TP16VC220M 220u 20% 1 |
| | | C319 | 0CE227SF6DC | MVG6.3TP16VC220M 220u 20% 1 |
| | | C321 | 0CE227SF6DC | MVG6.3TP16VC220M 220u 20% 1 |
| | | C327 | 0CE107WF6DC | MVK6.3TP16VC100M 100u 20% 1 |
| | | C328 | 0CE227SF6DC | MVG6.3TP16VC220M 220u 20% 1 |
| | | C332 | 0CE227SF6DC | MVG6.3TP16VC220M 220u 20% 1 |
| | | C335 | 0CE227SF6DC | MVG6.3TP16VC220M 220u 20% 1 |
| | | C344 | 0CE107WF6DC | MVK6.3TP16VC100M 100u 20% 1 |
| | | C345 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C346 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C347 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C354 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C355 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C356 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C359 | 0CE227SF6DC | MVG6.3TP16VC220M 220u 20% 1 |
| | | C363 | 0CE227SF6DC | MVG6.3TP16VC220M 220u 20% 1 |
| | | C367 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C369 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C373 | 0CE227SF6DC | MVG6.3TP16VC220M 220u 20% 1 |
| | | C405 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C408 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C412 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C415 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C428 | 0CE106SK6DC | VMV106M050S0ANC010 10u 20% |
| | | C429 | 0CE106SK6DC | VMV106M050S0ANC010 10u 20% |
| | | C452 | 0CE337WJ6D8 | MVK12.5TP35VC330M 330u 20% |
| | | C453 | 0CE337WJ6D8 | MVK12.5TP35VC330M 330u 20% |
| | | C454 | 0CE337WJ6D8 | MVK12.5TP35VC330M 330u 20% |
| | | C455 | 0CE337WJ6D8 | MVK12.5TP35VC330M 330u 20% |
| | | C501 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C512 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C527 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C529 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C536 | 0CE105WK6DC | MVK4.0TP50VC1M 1u 20% 50V 5 |
| | | C537 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C540 | 0CE107WF6DC | MVK6.3TP16VC100M 100u 20% 1 |
| | | C543 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C601 | 0CE476WF6DC | MVK6.3TP16VC47M 47u 20% 16V |
| | | C623 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C624 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C625 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C626 | 0CE476WH6DC | MVK8.0TP25VC47M 47u 20% 25V |
| | | C627 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C630 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C632 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |

| DATE: 2006. 02. 20. | | | | |
|---------------------|-----|----------|-------------|-----------------------------|
| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | C634 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C635 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C636 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C637 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C638 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C639 | 0CE106WFKDC | MVK4.0TP16VC10M 10u 20% 16V |
| | | C102 | 0CK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C103 | 0CC101CK41A | C1608C0G1H101JT 100p 5% 50V |
| | | C104 | 0CC101CK41A | C1608C0G1H101JT 100p 5% 50V |
| | | C111 | 0CC101CK41A | C1608C0G1H101JT 100p 5% 50V |
| | | C113 | 0CC101CK41A | C1608C0G1H101JT 100p 5% 50V |
| | | C114 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C118 | 0CC101CK41A | C1608C0G1H101JT 100p 5% 50V |
| | | C119 | 0CC101CK41A | C1608C0G1H101JT 100p 5% 50V |
| | | C123 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C124 | 0CC101CK41A | C1608C0G1H101JT 100p 5% 50V |
| | | C125 | 0CC101CK41A | C1608C0G1H101JT 100p 5% 50V |
| | | C132 | 0CC471CK41A | C1608C0G1H471JT 470p 5% 50V |
| | | C133 | 0CC471CK41A | C1608C0G1H471JT 470p 5% 50V |
| | | C134 | 0CC471CK41A | C1608C0G1H471JT 470p 5% 50V |
| | | C135 | 0CC471CK41A | C1608C0G1H471JT 470p 5% 50V |
| | | C204 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C205 | 0CC560CK41A | C1608C0G1H560JT 56p 5% 50V |
| | | C206 | 0CC560CK41A | C1608C0G1H560JT 56p 5% 50V |
| | | C207 | 0CC560CK41A | C1608C0G1H560JT 56p 5% 50V |
| | | C210 | 0CK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C211 | 0CK222CK56A | 0603B222K500CT 2.2n 10% 50V |
| | | C212 | 0CK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C213 | 0CK222CK56A | 0603B222K500CT 2.2n 10% 50V |
| | | C214 | 0CK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C215 | 0CK222CK56A | 0603B222K500CT 2.2n 10% 50V |
| | | C216 | 0CK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C217 | 0CK222CK56A | 0603B222K500CT 2.2n 10% 50V |
| | | C218 | 0CK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C219 | 0CK222CK56A | 0603B222K500CT 2.2n 10% 50V |
| | | C221 | 0CK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C222 | 0CK222CK56A | 0603B222K500CT 2.2n 10% 50V |
| | | C223 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C224 | 0CK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C225 | 0CK222CK56A | 0603B222K500CT 2.2n 10% 50V |
| | | C226 | 0CK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C227 | 0CK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C228 | 0CK222CK56A | 0603B222K500CT 2.2n 10% 50V |
| | | C229 | 0CC471CK41A | C1608C0G1H471JT 470p 5% 50V |
| | | C230 | 0CK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C231 | 0CC101CK41A | C1608C0G1H101JT 100p 5% 50V |
| | | C233 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C241 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C242 | 0CC560CK41A | C1608C0G1H560JT 56p 5% 50V |
| | | C243 | 0CC560CK41A | C1608C0G1H560JT 56p 5% 50V |
| | | C244 | 0CC560CK41A | C1608C0G1H560JT 56p 5% 50V |
| | | C246 | 0CK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C249 | 0CK222CK56A | 0603B222K500CT 2.2n 10% 50V |
| | | C251 | 0CK222CK56A | 0603B222K500CT 2.2n 10% 50V |
| | | C252 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C253 | 0CK222CK56A | 0603B222K500CT 2.2n 10% 50V |
| | | C254 | 0CK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C255 | 0CK222CK56A | 0603B222K500CT 2.2n 10% 50V |
| | | C256 | 0CK222CK56A | 0603B222K500CT 2.2n 10% 50V |
| | | C257 | 0CC101CK41A | C1608C0G1H101JT 100p 5% 50V |
| | | C258 | 0CK222CK56A | 0603B222K500CT 2.2n 10% 50V |
| | | C259 | 0CK222CK56A | 0603B222K500CT 2.2n 10% 50V |
| | | C260 | 0CK222CK56A | 0603B222K500CT 2.2n 10% 50V |
| | | C261 | 0CK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C262 | 0CC471CK41A | C1608C0G1H471JT 470p 5% 50V |
| | | C264 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C274 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C301 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C303 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C304 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C306 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C307 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C315 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C316 | 0CK334CF94A | C1608Y5V1C334ZT 330n -20TO+ |

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|---------------------|-----|----------|-------------|-----------------------------|
| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | C317 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C322 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C323 | 0CC102CK41A | C1608C0G1H102JT 1n 5% 50V C |
| | | C325 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C326 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C329 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C337 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C338 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C339 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C340 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C341 | 0CK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C342 | 0CK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C343 | 0CK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C348 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C349 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C350 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C351 | 0CK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C352 | 0CK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C353 | 0CK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C357 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C358 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C360 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C361 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C362 | 0CC102CK41A | C1608C0G1H102JT 1n 5% 50V C |
| | | C364 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C366 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C368 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C370 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C401 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C402 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C403 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C404 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C406 | 0CC102CK41A | C1608C0G1H102JT 1n 5% 50V C |
| | | C407 | 0CC101CK41A | C1608C0G1H101JT 100p 5% 50V |
| | | C409 | 0CK105CF94A | 0603F105Z160CT 1u -20TO+80% |
| | | C410 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C411 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C413 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C414 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C416 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C418 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C419 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C421 | 0CK105CF94A | 0603F105Z160CT 1u -20TO+80% |
| | | C423 | 0CK105CF94A | 0603F105Z160CT 1u -20TO+80% |
| | | C426 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C431 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C434 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C436 | 0CK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C438 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C439 | 0CK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C444 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C445 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C448 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C450 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C460 | 0CK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C461 | 0CK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C462 | 0CK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C463 | 0CK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C465 | 0CK474EK66A | C3216X7R1H474MT 470n 20% 50 |
| | | C467 | 0CK474EK66A | C3216X7R1H474MT 470n 20% 50 |
| | | C468 | 0CK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C470 | 0CK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C473 | 0CK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C474 | 0CK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C502 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C503 | 0CK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C504 | 0CK472CK56A | 0603B472K500CT 4.7n 10% 50V |
| | | C509 | 0CK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C510 | 0CK105CF94A | 0603F105Z160CT 1u -20TO+80% |
| | | C511 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C515 | 0CC101CK41A | C1608C0G1H101JT 100p 5% 50V |
| | | C521 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C528 | 0CK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C531 | 0CK104CF56A | 0603B104K160CT 100n 10% 16V |

| DATE: 2006. 02. 20. | | | | |
|---------------------|-----|----------|-------------|------------------------------|
| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | C538 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C539 | OCK104CF56A | 0603B104K160CT 100n 10% 16V |
| | | C541 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C603 | OCK101CK41A | C1608C0G1H101JT 100p 5% 50V |
| | | C604 | OCK101CK41A | C1608C0G1H101JT 100p 5% 50V |
| | | C607 | OCK220CK41A | C1608C0G1H220JT 22p 5% 50V |
| | | C608 | OCK220CK41A | C1608C0G1H220JT 22p 5% 50V |
| | | C611 | OCK471CK41A | C1608C0G1H471JT 470p 5% 50V |
| | | C612 | OCK471CK41A | C1608C0G1H471JT 470p 5% 50V |
| | | C614 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C615 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C616 | OCK471CK41A | C1608C0G1H471JT 470p 5% 50V |
| | | C628 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C631 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C650 | OCK471CK41A | C1608C0G1H471JT 470p 5% 50V |
| | | C108 | OCK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C120 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C201 | OCK020CK01A | C1608C0G1H020CT 2p 0.25PF 5 |
| | | C202 | OCK020CK01A | C1608C0G1H020CT 2p 0.25PF 5 |
| | | C209 | OCK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C236 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C239 | OCK020CK01A | C1608C0G1H020CT 2p 0.25PF 5 |
| | | C240 | OCK020CK01A | C1608C0G1H020CT 2p 0.25PF 5 |
| | | C248 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C250 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C267 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C268 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C269 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C270 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C312 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C330 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C331 | OCK103CK56A | 0603B103K500CT 10n 10% 50V |
| | | C333 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C417 | OCK102CK41A | C1608C0G1H102JT 1n 5% 50V C |
| | | C422 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C446 | OCK333CK56A | C1608X7R1H333KT 33n 10% 50V |
| | | C447 | OCK333CK56A | C1608X7R1H333KT 33n 10% 50V |
| | | C449 | OCK333CK56A | C1608X7R1H333KT 33n 10% 50V |
| | | C451 | OCK333CK56A | C1608X7R1H333KT 33n 10% 50V |
| | | C505 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C506 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C507 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C508 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C513 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C514 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C516 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C517 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C518 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C519 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C520 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C522 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C523 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C524 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C525 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C526 | OCK474CH94A | 0603F474Z250CT 470n -20TO+8 |
| | | C530 | OCK104CF56A | 0603B104K160CT 100n 10% 16V |
| | | C534 | OCK220CK41A | C1608C0G1H220JT 22p 5% 50V |
| | | C535 | OCK220CK41A | C1608C0G1H220JT 22p 5% 50V |
| | | C537 | OCK104CF56A | 0603B104K160CT 100n 10% 16V |
| | | C542 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C544 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C602 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C629 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C633 | OCK104CK56A | 0603B104K500CT 100n 10% 50V |
| | | C309 | OCE686SJ6D8 | "68UF MVG,MC,VC 35V 20% SMD" |
| | | C320 | OCE686SJ6D8 | "68UF MVG,MC,VC 35V 20% SMD" |
| | | C371 | OCE686SJ6D8 | "68UF MVG,MC,VC 35V 20% SMD" |
| | | C372 | OCE686SJ6D8 | "68UF MVG,MC,VC 35V 20% SMD" |
| DIODES | | | | |
| | | D101 | ODSIH00028A | MC2838-T112-1 1200MV 75V 30 |
| | | D102 | ODSIH00028A | MC2838-T112-1 1200MV 75V 30 |
| | | ZD109 | 0DZ560009DA | UDZS5.6B 5600MV 5.49TO5.73V |

| DATE: 2006. 02. 20. | | | | |
|---------------------------------------|-----|----------|--------------|-----------------------------|
| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | ZD201 | 0DZRM000248A | RLZ8.2B 8200MV 7.78TO8.19V |
| | | ZD202 | 0DZRM000248A | RLZ8.2B 8200MV 7.78TO8.19V |
| | | ZD601 | 0DZ560009DA | UDZS5.6B 5600MV 5.49TO5.73V |
| | | ZD602 | 0DZ560009DA | UDZS5.6B 5600MV 5.49TO5.73V |
| | | ZD603 | 0DZ560009DA | UDZS5.6B 5600MV 5.49TO5.73V |
| | | ZD604 | 0DZ560009DA | UDZS5.6B 5600MV 5.49TO5.73V |
| | | ZD605 | 0DZ560009DA | UDZS5.6B 5600MV 5.49TO5.73V |
| | | ZD618 | 0DZ560009DA | UDZS5.6B 5600MV 5.49TO5.73V |
| | | ZD619 | 0DZ560009DA | UDZS5.6B 5600MV 5.49TO5.73V |
| | | ZD620 | 0DZ560009DA | UDZS5.6B 5600MV 5.49TO5.73V |
| | | ZD606 | 0DZ560009DA | UDZS5.6B 5600MV 5.49TO5.73V |
| | | ZD621 | 0DZ560009DA | UDZS5.6B 5600MV 5.49TO5.73V |
| | | ZD622 | 0DZ560009DA | UDZS5.6B 5600MV 5.49TO5.73V |
| IC | | | | |
| | | IC101 | 0ISO206900A | CXA2069Q 8.5TO9.5V - - 1300 |
| | | IC401 | 0ILNR00015A | NSP-2100A 1.8VTO3.3V - - - |
| | | IC403 | 0IMCRTI028C | TAS5122DCAR 3TO3.6V_16TO25. |
| | | IC505 | 0ISTL00024A | MC14053BDR2G 3TO18V 0.02mA |
| | | IC502 | 0IMCRAL006A | AT24C16AN-10SI-2.7 16KBIT 2 |
| | | IC601 | 0IMMRAL014B | AT24C02N-10SI-2.7 2KBIT 256 |
| | | IC302 | 0IMCRSJ001A | SC15651ST-1.8 2.2TO5.5V 1.8 |
| | | IC304 | 0IMCRRH001A | BA033FP-E2 4.3TO25V 3.3V 1W |
| | | IC504 | 0IMCR02227A | MTV416GMF 3TO3.6V 24mA 25MH |
| | | IC201 | 0IPRP00670A | MSP4458G-C4 7.6TO8.7V 4.75T |
| | | IC202 | 0IMCRMN028C | MSP4450K-QA-D6 7.6TO8.7V 4. |
| | | IC602 | 0IPH740800H | 74F08D 4.5TO5.5V 12.9mA AND |
| | | IC501 | 0IMCRSO025A | CXA2181Q 4.75TO5.25 - 1645M |
| | | IC503 | 0IKE702900G | KA7029AF -0.3TO15V 2.9V 50 |
| | | IC301 | 0IMCRSH001A | PQ05DZ1U 6TO16V 5V 8W D2PAK |
| | | IC303 | 0IMCRFA010A | KA7809R 11.5TO24V 9V 150W D |
| COIL & CORE & INDUCTOR | | | | |
| | | L101 | 0LC2000005D | FI-B2012-332KJT 3.3UH 10% - |
| | | L102 | 0LC2000005D | FI-B2012-332KJT 3.3UH 10% - |
| | | L103 | 0LC2000005D | FI-B2012-332KJT 3.3UH 10% - |
| | | L104 | 0LC2000005D | FI-B2012-332KJT 3.3UH 10% - |
| | | L201 | 0LC2232101A | FI-D3216-223KJT 22UH 10% - |
| | | L202 | 0LC2232101A | FI-D3216-223KJT 22UH 10% - |
| | | L203 | 0LC2232101A | FI-D3216-223KJT 22UH 10% - |
| | | L204 | 0LC2232101A | FI-D3216-223KJT 22UH 10% - |
| | | L205 | 0LC2232101A | FI-D3216-223KJT 22UH 10% - |
| | | L206 | 0LC2232101A | FI-D3216-223KJT 22UH 10% - |
| | | L501 | 0LC2232101A | FI-D3216-223KJT 22UH 10% - |
| | | L502 | 0LC2232101A | FI-D3216-223KJT 22UH 10% - |
| | | L302 | 6140VB0004B | LN-15A1 26uH - - 12X9MM LEA |
| | | L303 | 6140VB0004B | LN-15A1 26uH - - 12X9MM LEA |
| | | L304 | 6140VB0004B | LN-15A1 26uH - - 12X9MM LEA |
| | | L306 | 6140VB0004B | LN-15A1 26uH - - 12X9MM LEA |
| | | L408 | 61409B0008A | DBF-1310S DONGBANG 10UH 15% |
| | | L409 | 61409B0008A | DBF-1310S DONGBANG 10UH 15% |
| | | L410 | 61409B0008A | DBF-1310S DONGBANG 10UH 15% |
| | | L411 | 61409B0008A | DBF-1310S DONGBANG 10UH 15% |
| | | L301 | 6210TCE001G | HH-1M3216-501JT 500OHM 3.2X |
| | | L305 | 6210TCE001G | HH-1M3216-501JT 500OHM 3.2X |
| | | L311 | 6210TCE001G | HH-1M3216-501JT 500OHM 3.2X |
| | | L312 | 6210TCE001G | HH-1M3216-501JT 500OHM 3.2X |
| | | L313 | 6210TCE001G | HH-1M3216-501JT 500OHM 3.2X |
| | | L401 | 6210TCE001G | HH-1M3216-501JT 500OHM 3.2X |
| | | L402 | 6210TCE001G | HH-1M3216-501JT 500OHM 3.2X |
| | | L403 | 6210TCE001G | HH-1M3216-501JT 500OHM 3.2X |
| | | L404 | 6210TCE001G | HH-1M3216-501JT 500OHM 3.2X |
| | | L417 | 6210TCE001S | HU-1M2012-121 120OHM 2X1.25 |
| | | L418 | 6210TCE001S | HU-1M2012-121 120OHM 2X1.25 |
| | | L419 | 6210TCE001S | HU-1M2012-121 120OHM 2X1.25 |
| | | L420 | 6210TCE001S | HU-1M2012-121 120OHM 2X1.25 |
| | | L601 | 6210TCE001G | HH-1M3216-501JT 500OHM 3.2X |
| | | L604 | 6210TCE001G | HH-1M3216-501JT 500OHM 3.2X |
| | | L613 | 6210TCE001G | HH-1M3216-501JT 500OHM 3.2X |
| | | L616 | 6210TCE001G | HH-1M3216-501JT 500OHM 3.2X |
| | | L308 | 6210TCE001G | HH-1M3216-501JT 500OHM 3.2X |
| | | L309 | 6210TCE001G | HH-1M3216-501JT 500OHM 3.2X |

| DATE: 2006. 02. 20. | | | | |
|---------------------|-----|----------|-------------|------------------------------|
| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | L310 | 6210TCE001G | HH-1M3216-501JT 500OHM 3.2X |
| | | L315 | 6210TCE001G | HH-1M3216-501JT 500OHM 3.2X |
| | | L316 | 6210TCE001G | HH-1M3216-501JT 500OHM 3.2X |
| | | L503 | 6210TCE001G | HH-1M3216-501JT 500OHM 3.2X |
| | | L602 | 6210TCE001G | HH-1M3216-501JT 500OHM 3.2X |
| TRANSISTOR | | | | |
| | | Q301 | 0TFVI80067A | SI3865BDV N-CHANNEL MOSFET |
| | | Q303 | 0TFVI80067A | SI3865BDV N-CHANNEL MOSFET |
| | | Q605 | 0TR830009BA | BSS83 N-CHANNEL MOSFET 10V |
| | | Q606 | 0TR830009BA | BSS83 N-CHANNEL MOSFET 10V |
| | | Q107 | 0TRIH80002A | 2SA1530A-T112-1R PNP -6V -6 |
| | | Q108 | 0TRIH80002A | 2SA1530A-T112-1R PNP -6V -6 |
| | | Q110 | 0TRIY80001A | 2SC3052 NPN 6V 50V 50V 200M |
| | | Q112 | 0TRIY80001A | 2SC3052 NPN 6V 50V 50V 200M |
| | | Q201 | 0TRIH80002A | 2SA1530A-T112-1R PNP -6V -6 |
| | | Q203 | 0TRIH80002A | 2SA1530A-T112-1R PNP -6V -6 |
| | | Q205 | 0TRIY80001A | 2SC3052 NPN 6V 50V 50V 200M |
| | | Q206 | 0TRIY80001A | 2SC3052 NPN 6V 50V 50V 200M |
| | | Q207 | 0TR102009AM | KRA102S PNP -30V - -50V -0. |
| | | Q501 | 0TRIH80002A | 2SA1530A-T112-1R PNP -6V -6 |
| | | Q504 | 0TRIY80001A | 2SC3052 NPN 6V 50V 50V 200M |
| | | Q612 | 0TRIH80003A | RT1N141C-T112-1 NPN 10V 50V |
| | | Q102 | 0TRIH80002A | 2SA1530A-T112-1R PNP -6V -6 |
| | | Q103 | 0TRIH80002A | 2SA1530A-T112-1R PNP -6V -6 |
| | | Q105 | 0TRIY80001A | 2SC3052 NPN 6V 50V 50V 200M |
| | | Q106 | 0TRIY80001A | 2SC3052 NPN 6V 50V 50V 200M |
| | | Q109 | 0TRIY80001A | 2SC3052 NPN 6V 50V 50V 200M |
| | | Q202 | 0TRIH80002A | 2SA1530A-T112-1R PNP -6V -6 |
| | | Q204 | 0TRIH80002A | 2SA1530A-T112-1R PNP -6V -6 |
| | | Q502 | 0TRIY80001A | 2SC3052 NPN 6V 50V 50V 200M |
| | | Q503 | 0TRIY80001A | 2SC3052 NPN 6V 50V 50V 200M |
| | | Q517 | 0TR102009AM | KRA102S PNP -30V - -50V -0. |
| | | Q613 | 0TRIY80001A | 2SC3052 NPN 6V 50V 50V 200M |
| | | Q614 | 0TRIY80001A | 2SC3052 NPN 6V 50V 50V 200M |
| | | Q615 | 0TRIY80001A | 2SC3052 NPN 6V 50V 50V 200M |
| | | Q616 | 0TRIY80001A | 2SC3052 NPN 6V 50V 50V 200M |
| | | Q617 | 0TRIY80001A | 2SC3052 NPN 6V 50V 50V 200M |
| | | Q618 | 0TRIY80001A | 2SC3052 NPN 6V 50V 50V 200M |
| | | Q619 | 0TRIY80001A | 2SC3052 NPN 6V 50V 50V 200M |
| | | Q620 | 0TRIY80001A | 2SC3052 NPN 6V 50V 50V 200M |
| | | Q621 | 0TRIY80001A | 2SC3052 NPN 6V 50V 50V 200M |
| RESISTORS | | | | |
| | | R101 | 0RJ3301D677 | MCR03EZPJ332 3.3KOHM 5% 1/1 |
| | | R103 | 0RJ3301D677 | MCR03EZPJ332 3.3KOHM 5% 1/1 |
| | | R112 | 0RJ0752D677 | MCR03EZPJ750 750OHM 5% 1/10W |
| | | R113 | 0RJ0752D677 | MCR03EZPJ750 750OHM 5% 1/10W |
| | | R115 | 0RJ5601D677 | MCR03EZPJ562 5.6KOHM 5% 1/1 |
| | | R116 | 0RJ0222D677 | MCR03EZPJ220 220OHM 5% 1/10W |
| | | R117 | 0RJ3301D677 | MCR03EZPJ332 3.3KOHM 5% 1/1 |
| | | R118 | 0RJ4703D677 | MCR03EZPJ474 470KOHM 5% 1/1 |
| | | R119 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R120 | 0RJ0752D677 | MCR03EZPJ750 750OHM 5% 1/10W |
| | | R121 | 0RJ9100D677 | MCR03EZPJ911 910OHM 5% 1/10 |
| | | R122 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R123 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R124 | 0RJ5100D677 | MCR03EZPJ511 510OHM 5% 1/10 |
| | | R125 | 0RJ9100D677 | MCR03EZPJ911 910OHM 5% 1/10 |
| | | R126 | 0RJ3301D677 | MCR03EZPJ332 3.3KOHM 5% 1/1 |
| | | R127 | 0RJ5100D677 | MCR03EZPJ511 510OHM 5% 1/10 |
| | | R129 | 0RJ5601D677 | MCR03EZPJ562 5.6KOHM 5% 1/1 |
| | | R131 | 0RJ4703D677 | MCR03EZPJ474 470KOHM 5% 1/1 |
| | | R132 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R133 | 0RJ1003D677 | MCR03EZPJ104 100KOHM 5% 1/1 |
| | | R134 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R135 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R136 | 0RJ4703D677 | MCR03EZPJ474 470KOHM 5% 1/1 |
| | | R141 | 0RJ0682D677 | MCR03EZPJ680 680OHM 5% 1/10W |
| | | R144 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R146 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R149 | 0RJ0752D677 | MCR03EZPJ750 750OHM 5% 1/10W |

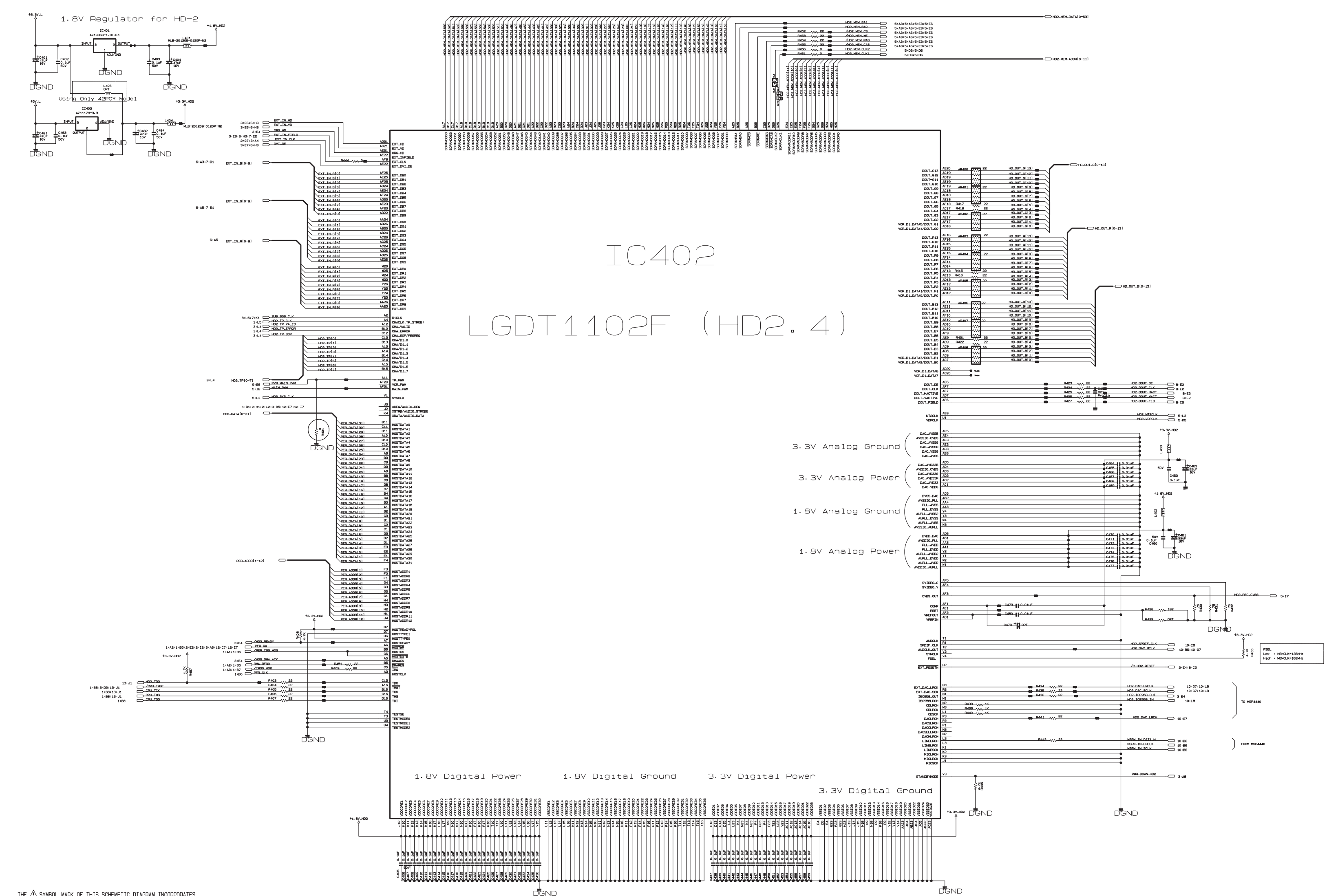
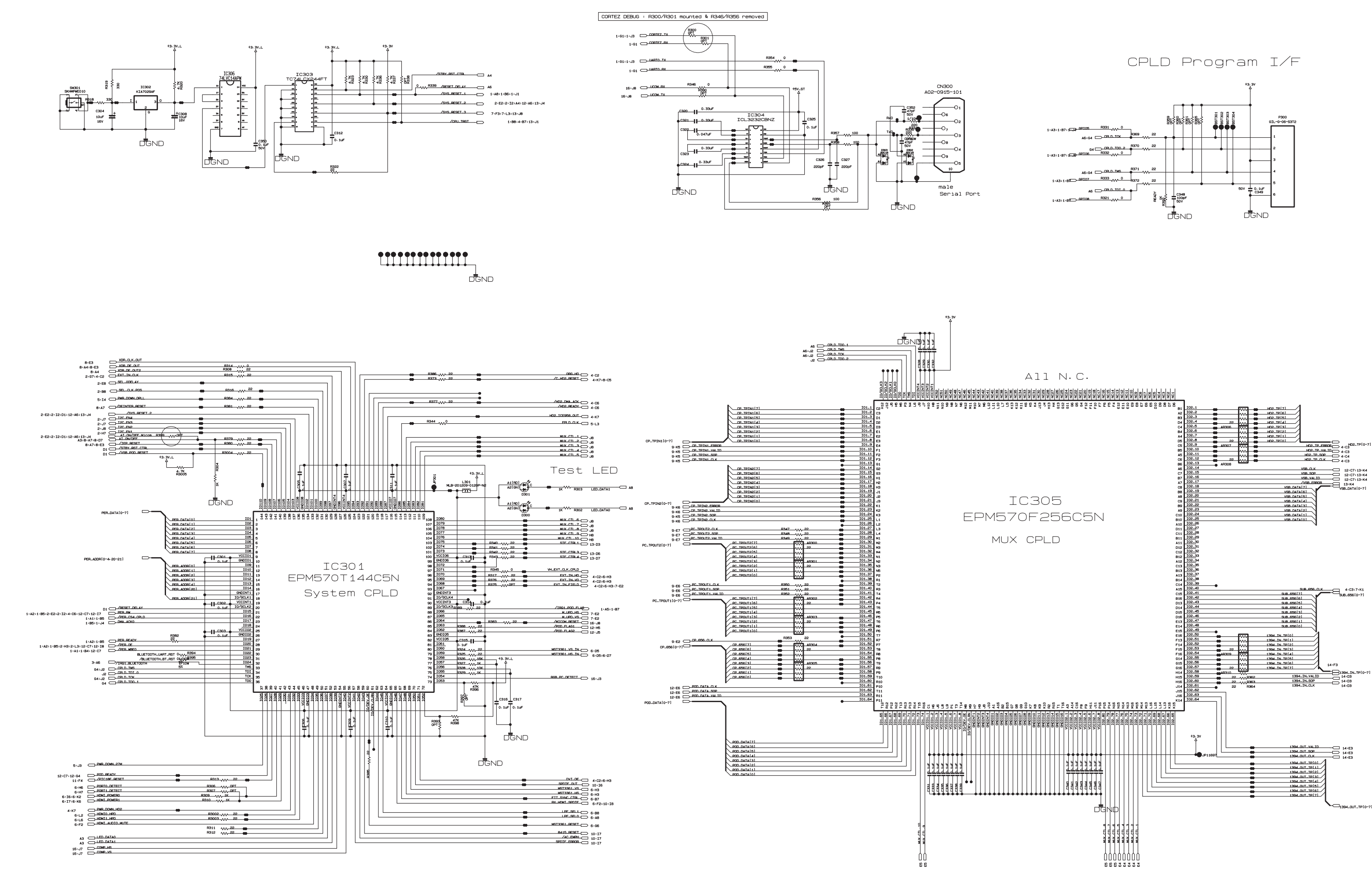
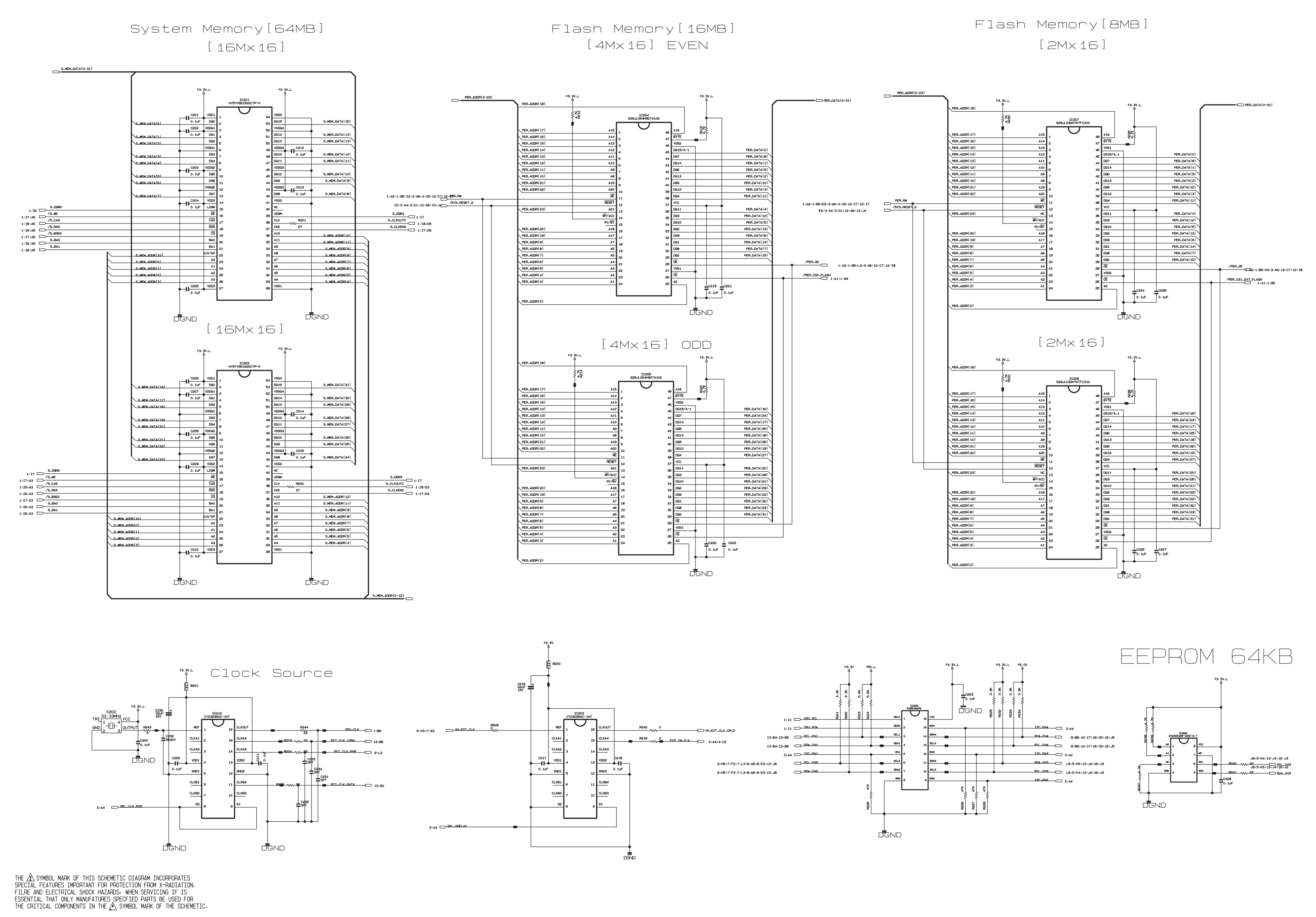
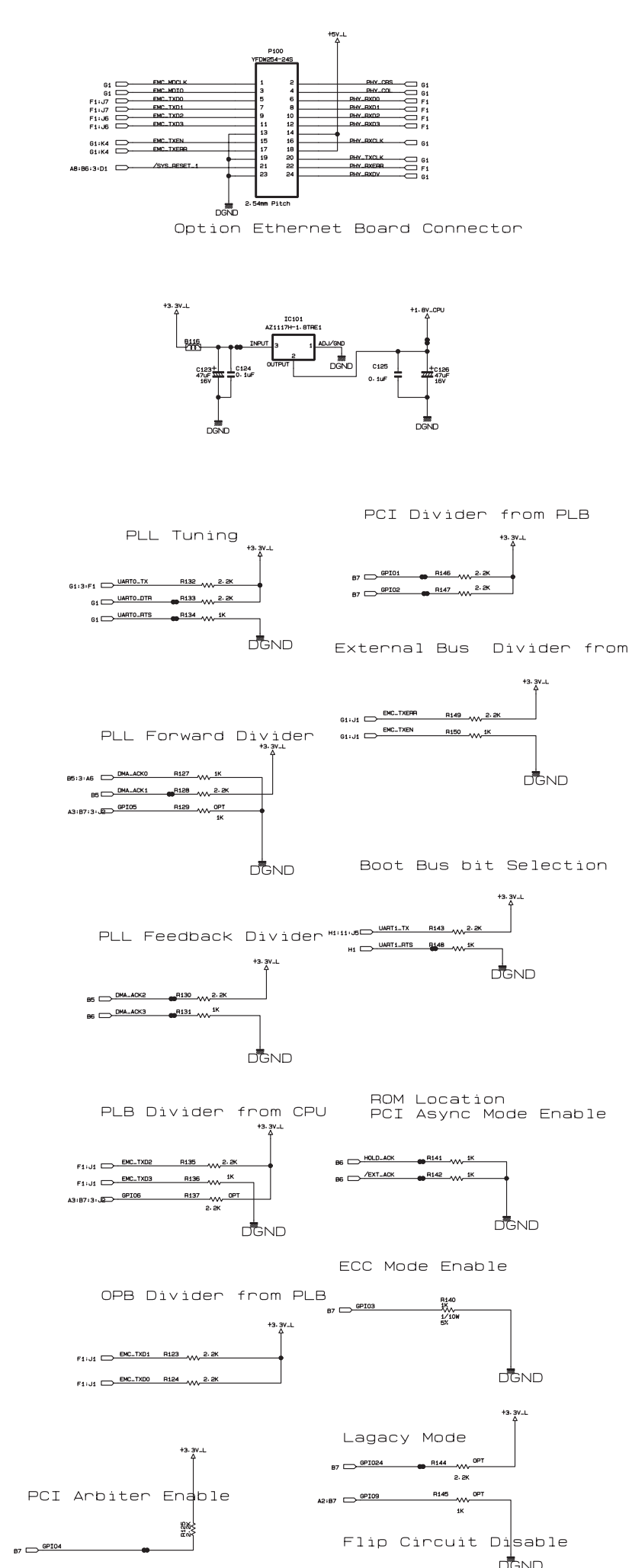
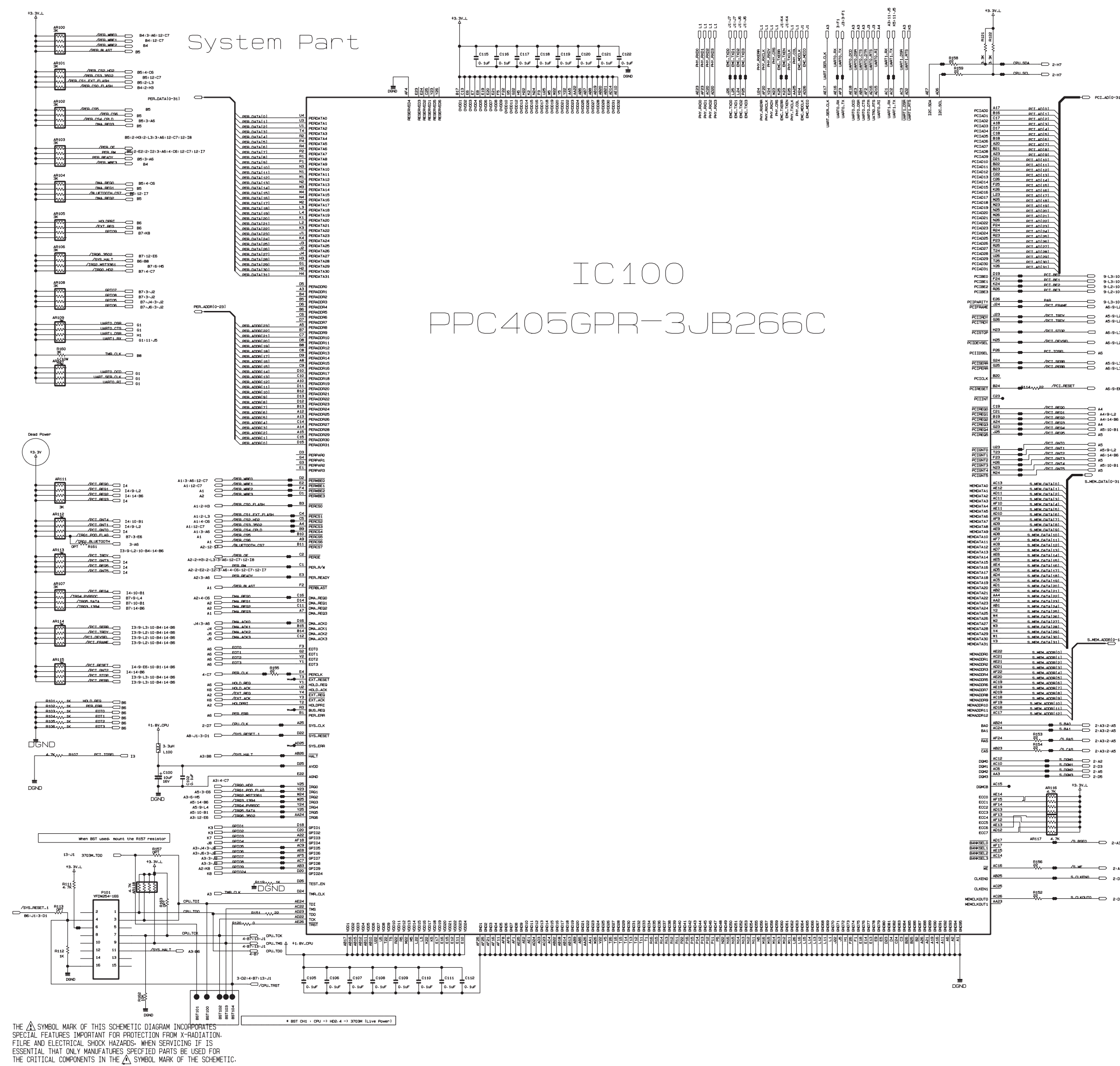
| DATE: 2006. 02. 20. | | | | |
|---------------------|-----|----------|-------------|------------------------------|
| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | R150 | 0RJ0752D677 | MCR03EZPJ750 750OHM 5% 1/10W |
| | | R155 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R157 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R158 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R159 | 0RJ4703D677 | MCR03EZPJ474 470KOHM 5% 1/1 |
| | | R160 | 0RJ4703D677 | MCR03EZPJ474 470KOHM 5% 1/1 |
| | | R161 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R162 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R163 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R164 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R202 | 0RJ0432D677 | MCR03EZPJ430 430OHM 5% 1/10W |
| | | R203 | 0RJ0432D677 | MCR03EZPJ430 430OHM 5% 1/10W |
| | | R204 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R210 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R212 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R215 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R216 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R217 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R218 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R219 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R220 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R221 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R226 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R227 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R230 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R231 | 0RJ0392D677 | MCR03EZPJ390 390OHM 5% 1/10W |
| | | R232 | 0RJ0392D677 | MCR03EZPJ390 390OHM 5% 1/10W |
| | | R247 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R260 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R261 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R266 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R267 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R268 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R269 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R270 | 0RJ4703D677 | MCR03EZPJ474 470KOHM 5% 1/1 |
| | | R271 | 0RJ2001D677 | MCR03EZPJ202 2KOHM 5% 1/10W |
| | | R272 | 0RJ2001D677 | MCR03EZPJ202 2KOHM 5% 1/10W |
| | | R273 | 0RJ4703D677 | MCR03EZPJ474 470KOHM 5% 1/1 |
| | | R274 | 0RJ1501D677 | MCR03EZPJ152 1.5KOHM 5% 1/1 |
| | | R275 | 0RJ1501D677 | MCR03EZPJ152 1.5KOHM 5% 1/1 |
| | | R276 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R304 | 0RJ2202D677 | MCR03EZPJ223 22KOHM 5% 1/10 |
| | | R308 | 0RJ5600D677 | MCR03EZPJ561 560OHM 5% 1/10 |
| | | R310 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R311 | 0RJ2202D677 | MCR03EZPJ223 22KOHM 5% 1/10 |
| | | R312 | 0RJ5600D677 | MCR03EZPJ561 560OHM 5% 1/10 |
| | | R401 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R402 | 0RJ3301D677 | MCR03EZPJ332 3.3KOHM 5% 1/1 |
| | | R403 | 0RJ0102D677 | MCR03EZPJ100 10OHM 5% 1/10W |
| | | R407 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R408 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R439 | 0RJ0101D677 | MCR03EZPJ1R0 1OHM 5% 1/10W |
| | | R441 | 0RJ0101D677 | MCR03EZPJ1R0 1OHM 5% 1/10W |
| | | R443 | 0RJ0101D677 | MCR03EZPJ1R0 1OHM 5% 1/10W |
| | | R444 | 0RJ0101D677 | MCR03EZPJ1R0 1OHM 5% 1/10W |
| | | R448 | 0RJ0331D677 | MCR03EZPJ3R3 3300MOHM 5% 1/ |
| | | R450 | 0RJ0331D677 | MCR03EZPJ3R3 3300MOHM 5% 1/ |
| | | R456 | 0RJ0101D677 | MCR03EZPJ1R0 1OHM 5% 1/10W |
| | | R458 | 0RJ0101D677 | MCR03EZPJ1R0 1OHM 5% 1/10W |
| | | R459 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R464 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R465 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R466 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R467 | 0RJ0101D677 | MCR03EZPJ1R0 1OHM 5% 1/10W |
| | | R469 | 0RJ0101D677 | MCR03EZPJ1R0 1OHM 5% 1/10W |
| | | R472 | 0RJ0101D677 | MCR03EZPJ1R0 1OHM 5% 1/10W |
| | | R473 | 0RJ0101D677 | MCR03EZPJ1R0 1OHM 5% 1/10W |
| | | R501 | 0RJ4700D677 | MCR03EZPJ471 470OHM 5% 1/10 |
| | | R506 | 0RJ1502D677 | MCR03EZPJ153 15KOHM 5% 1/10 |
| | | R5106 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R5111 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R5113 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R5114 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R5118 | 0RJ6802D677 | MCR03EZPJ683 68KOHM 5% 1/10 |

| DATE: 2006. 02. 20. | | | | |
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| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | R512 | 0RJ4700D677 | MCR03EZPJ471 470OHM 5% 1/10 |
| | | R5120 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R514 | 0RJ0752D677 | MCR03EZPJ750 75OHM 5% 1/10W |
| | | R5140 | 0RJ1502D677 | MCR03EZPJ153 15KOHM 5% 1/10 |
| | | R5155 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R5166 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R5167 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R5168 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R517 | 0RJ0752D677 | MCR03EZPJ750 75OHM 5% 1/10W |
| | | R5171 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R544 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R563 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R569 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R570 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R580 | 0RJ2002D677 | MCR03EZPJ2002 20KOHM 5% 1/1 |
| | | R583 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R585 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R6000 | 0RJ0822D677 | MCR03EZPJ820 82OHM 5% 1/10W |
| | | R6004 | 0RJ1502D677 | MCR03EZPJ153 15KOHM 5% 1/10 |
| | | R6005 | 0RJ1502D677 | MCR03EZPJ153 15KOHM 5% 1/10 |
| | | R6006 | 0RJ1502D677 | MCR03EZPJ153 15KOHM 5% 1/10 |
| | | R6007 | 0RJ6801D677 | MCR03EZPJ682 6.8KOHM 5% 1/1 |
| | | R6008 | 0RJ6801D677 | MCR03EZPJ682 6.8KOHM 5% 1/1 |
| | | R601 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R6016 | 0RJ1502D677 | MCR03EZPJ153 15KOHM 5% 1/10 |
| | | R6017 | 0RJ1502D677 | MCR03EZPJ153 15KOHM 5% 1/10 |
| | | R6018 | 0RJ1502D677 | MCR03EZPJ153 15KOHM 5% 1/10 |
| | | R602 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R607 | 0RJ2001D677 | MCR03EZPJ202 2KOHM 5% 1/10W |
| | | R612 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R613 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R614 | 0RJ2001D677 | MCR03EZPJ202 2KOHM 5% 1/10W |
| | | R617 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R618 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R627 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R628 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R629 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R630 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R631 | 0RJ4703D677 | MCR03EZPJ474 470KOHM 5% 1/1 |
| | | R632 | 0RJ4703D677 | MCR03EZPJ474 470KOHM 5% 1/1 |
| | | R633 | 0RJ0102D677 | MCR03EZPJ100 10OHM 5% 1/10W |
| | | R634 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R635 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R636 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R645 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R651 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R652 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R653 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R654 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R667 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R668 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R669 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R670 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R671 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R672 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R673 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R674 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R678 | 0RJ0822D677 | MCR03EZPJ820 82OHM 5% 1/10W |
| | | R679 | 0RJ0822D677 | MCR03EZPJ820 82OHM 5% 1/10W |
| | | R680 | 0RJ0822D677 | MCR03EZPJ820 82OHM 5% 1/10W |
| | | R684 | 0RJ1502D677 | MCR03EZPJ153 15KOHM 5% 1/10 |
| | | R685 | 0RJ1502D677 | MCR03EZPJ153 15KOHM 5% 1/10 |
| | | R686 | 0RJ1502D677 | MCR03EZPJ153 15KOHM 5% 1/10 |
| | | R687 | 0RJ6801D677 | MCR03EZPJ682 6.8KOHM 5% 1/1 |
| | | R688 | 0RJ6801D677 | MCR03EZPJ682 6.8KOHM 5% 1/1 |
| | | R689 | 0RJ6801D677 | MCR03EZPJ682 6.8KOHM 5% 1/1 |
| | | R690 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R691 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R692 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R695 | 0RJ0822D677 | MCR03EZPJ820 82OHM 5% 1/10W |
| | | R696 | 0RJ0822D677 | MCR03EZPJ820 82OHM 5% 1/10W |
| | | R697 | 0RJ0822D677 | MCR03EZPJ820 82OHM 5% 1/10W |
| | | R698 | 0RJ0822D677 | MCR03EZPJ820 82OHM 5% 1/10W |
| | | R699 | 0RJ0822D677 | MCR03EZPJ820 82OHM 5% 1/10W |

| DATE: 2006. 02. 20. | | | | |
|---------------------|-----|----------|-------------|-----------------------------|
| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | R102 | 0RJ5100D677 | MCR03EZPJ511 510OHM 5% 1/10 |
| | | R104 | 0RJ5100D677 | MCR03EZPJ511 510OHM 5% 1/10 |
| | | R105 | 0RJ1501D677 | MCR03EZPJ152 1.5KOHM 5% 1/1 |
| | | R106 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R107 | 0RJ1501D677 | MCR03EZPJ152 1.5KOHM 5% 1/1 |
| | | R108 | 0RJ9100D677 | MCR03EZPJ911 910OHM 5% 1/10 |
| | | R109 | 0RJ9100D677 | MCR03EZPJ911 910OHM 5% 1/10 |
| | | R111 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R114 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R128 | 0RJ0752D677 | MCR03EZPJ750 75OHM 5% 1/10W |
| | | R130 | 0RJ3300D677 | MCR03EZPJ331 330OHM 5% 1/10 |
| | | R137 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R138 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R139 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R140 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R142 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R143 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R147 | 0RJ1003D677 | MCR03EZPJ104 100KOHM 5% 1/1 |
| | | R148 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R151 | 0RJ0752D677 | MCR03EZPJ750 75OHM 5% 1/10W |
| | | R152 | 0RJ5601D677 | MCR03EZPJ562 5.6KOHM 5% 1/1 |
| | | R153 | 0RJ5601D677 | MCR03EZPJ562 5.6KOHM 5% 1/1 |
| | | R154 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R207 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R208 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R209 | 0RJ2200D677 | MCR03EZPJ221 220OHM 5% 1/10 |
| | | R211 | 0RJ2200D677 | MCR03EZPJ221 220OHM 5% 1/10 |
| | | R213 | 0RJ2200D677 | MCR03EZPJ221 220OHM 5% 1/10 |
| | | R222 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R223 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R224 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R228 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R233 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R234 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R235 | 0RJ2200D677 | MCR03EZPJ221 220OHM 5% 1/10 |
| | | R236 | 0RJ2200D677 | MCR03EZPJ221 220OHM 5% 1/10 |
| | | R237 | 0RJ2200D677 | MCR03EZPJ221 220OHM 5% 1/10 |
| | | R239 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R240 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R241 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R242 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R243 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R244 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R245 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R248 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R249 | 0RJ2200D677 | MCR03EZPJ221 220OHM 5% 1/10 |
| | | R250 | 0RJ2200D677 | MCR03EZPJ221 220OHM 5% 1/10 |
| | | R251 | 0RJ2200D677 | MCR03EZPJ221 220OHM 5% 1/10 |
| | | R252 | 0RJ2200D677 | MCR03EZPJ221 220OHM 5% 1/10 |
| | | R253 | 0RJ2200D677 | MCR03EZPJ221 220OHM 5% 1/10 |
| | | R254 | 0RJ2200D677 | MCR03EZPJ221 220OHM 5% 1/10 |
| | | R255 | 0RJ4703D677 | MCR03EZPJ474 470KOHM 5% 1/1 |
| | | R256 | 0RJ4703D677 | MCR03EZPJ474 470KOHM 5% 1/1 |
| | | R257 | 0RJ4703D677 | MCR03EZPJ474 470KOHM 5% 1/1 |
| | | R258 | 0RJ4703D677 | MCR03EZPJ474 470KOHM 5% 1/1 |
| | | R259 | 0RJ2200D677 | MCR03EZPJ221 220OHM 5% 1/10 |
| | | R262 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R263 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R264 | 0RJ2201D677 | MCR03EZPJ222 2.2KOHM 5% 1/1 |
| | | R265 | 0RJ2201D677 | MCR03EZPJ222 2.2KOHM 5% 1/1 |
| | | R303 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R306 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R404 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R406 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R409 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R410 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R411 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R412 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R413 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R414 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R415 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R417 | 0RJ2200D677 | MCR03EZPJ221 220OHM 5% 1/10 |
| | | R418 | 0RJ2200D677 | MCR03EZPJ221 220OHM 5% 1/10 |
| | | R423 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |

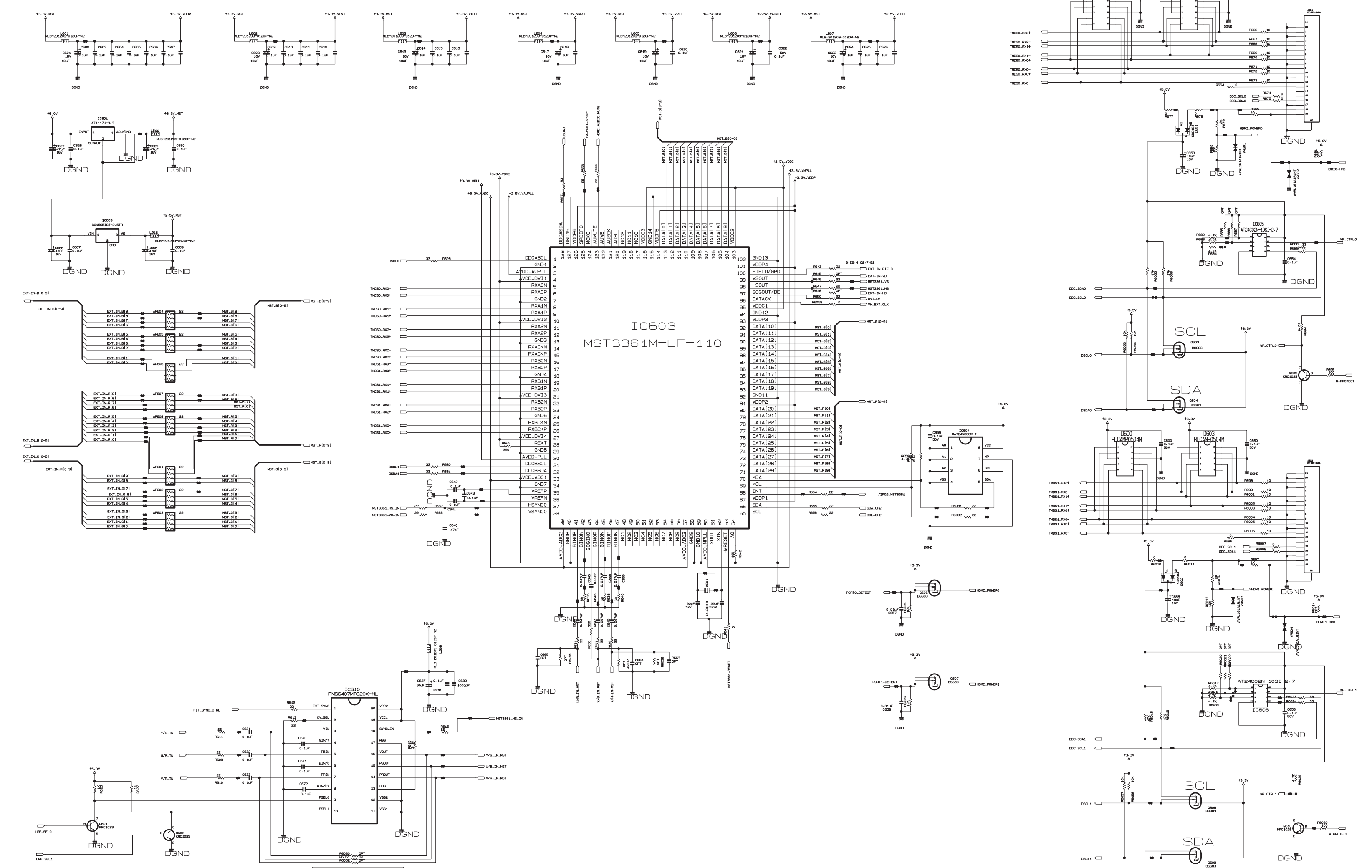
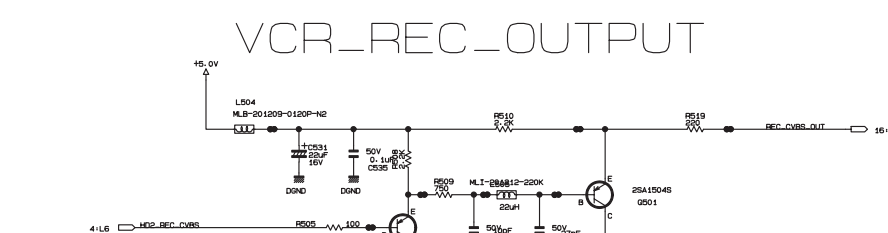
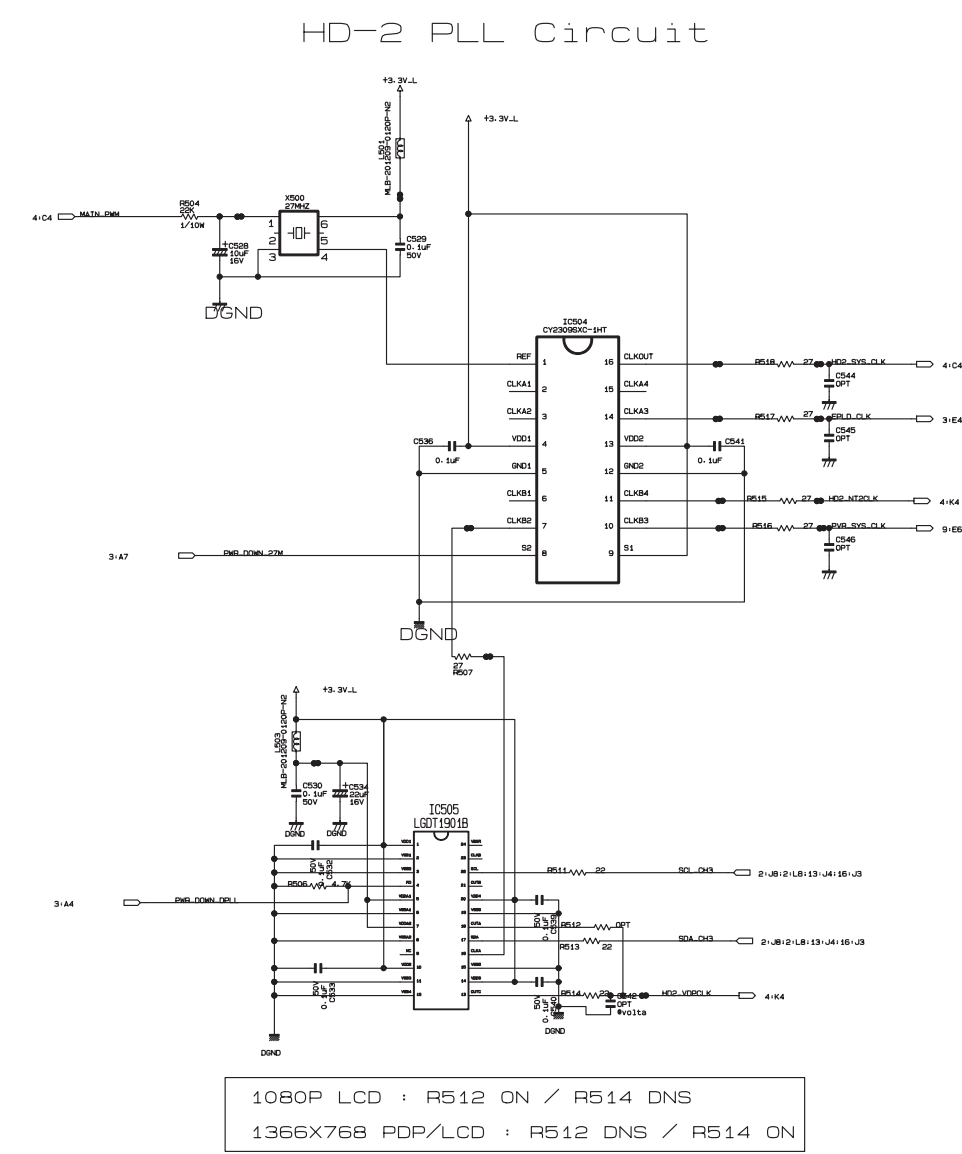
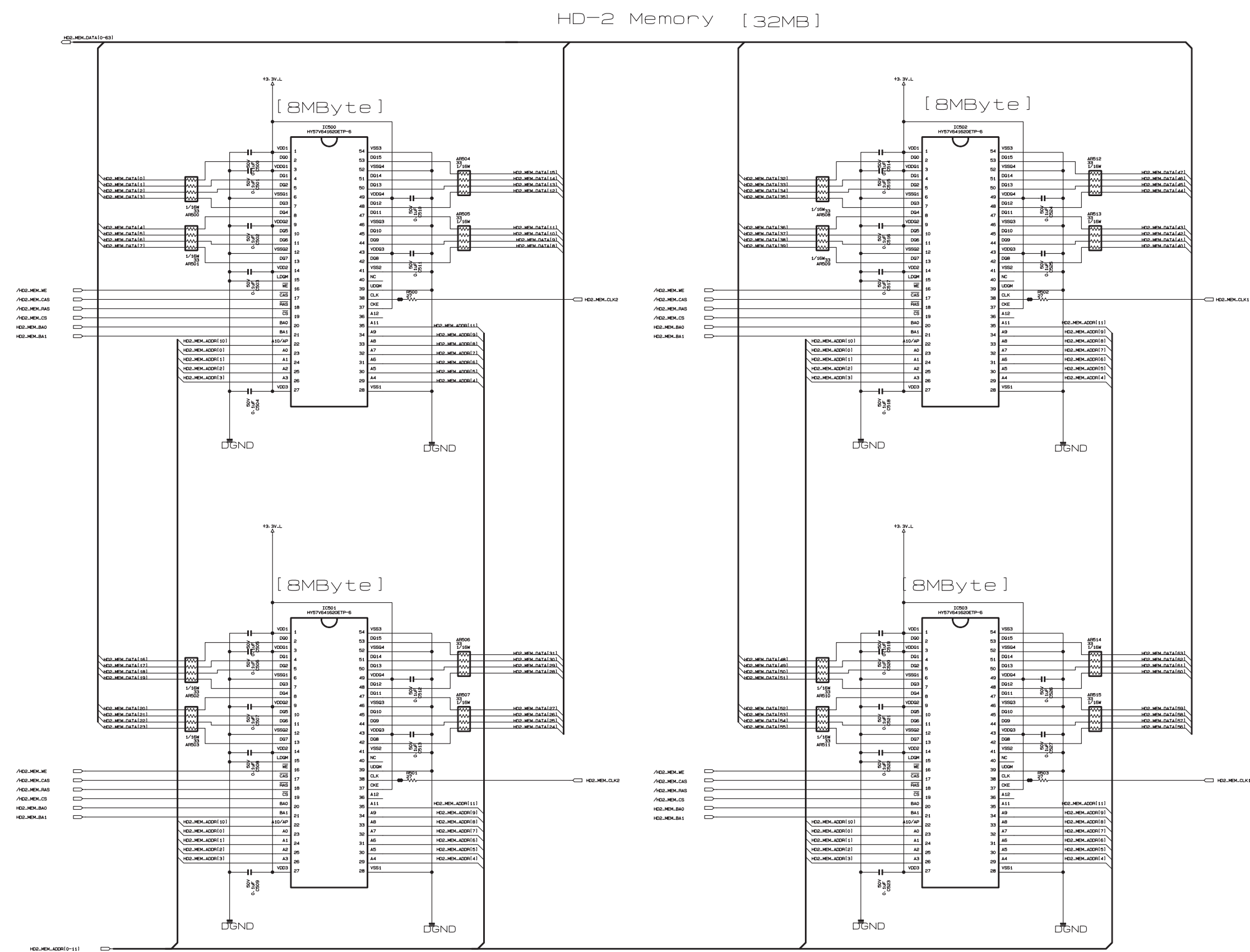
| DATE: 2006. 02. 20. | | | | |
|---------------------|-----|----------|-------------|-----------------------------|
| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | R424 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R426 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R427 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R438 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R453 | 0RJ0101D677 | MCR03EZPJ1R0 1OHM 5% 1/10W |
| | | R454 | 0RJ0101D677 | MCR03EZPJ1R0 1OHM 5% 1/10W |
| | | R455 | 0RJ0101D677 | MCR03EZPJ1R0 1OHM 5% 1/10W |
| | | R457 | 0RJ0101D677 | MCR03EZPJ1R0 1OHM 5% 1/10W |
| | | R508 | 0RJ0752D677 | MCR03EZPJ750 75OHM 5% 1/10W |
| | | R510 | 0RJ0752D677 | MCR03EZPJ750 75OHM 5% 1/10W |
| | | R5101 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R5103 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R5105 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R5107 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R5108 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R5109 | 0RJ1003D677 | MCR03EZPJ104 100KOHM 5% 1/1 |
| | | R5110 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R5112 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R513 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R5137 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R5139 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R515 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R5153 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R5154 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R5156 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R5157 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R5158 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R5159 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R516 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R5160 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R5161 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R5162 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R5163 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R5164 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R5165 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R520 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R521 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R524 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R527 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R529 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R530 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R540 | 0RJ2001D677 | MCR03EZPJ202 2KOHM 5% 1/10W |
| | | R541 | 0RJ2001D677 | MCR03EZPJ202 2KOHM 5% 1/10W |
| | | R542 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R546 | 0RJ2200D677 | MCR03EZPJ221 220OHM 5% 1/10 |
| | | R550 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R551 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R552 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R555 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R556 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R557 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R558 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R559 | 0RJ4701D677 | MCR03EZPJ472 4.7KOHM 5% 1/1 |
| | | R561 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R562 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R566 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R567 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R573 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R574 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R575 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R576 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R577 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R578 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R579 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R581 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R584 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R587 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R589 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R591 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R592 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R593 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R594 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R595 | 0RJ1001D677 | MCR03EZPJ102 1KOHM 5% 1/10W |
| | | R596 | 0RJ3302D677 | MCR03EZPJ333 33KOHM 5% 1/10 |

| DATE: 2006. 02. 20. | | | | |
|---------------------|-----|----------|-------------|-----------------------------|
| *S | *AL | LOC. NO. | PART NO. | DESCRIPTION / SPECIFICATION |
| | | R597 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R598 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R599 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R6009 | 0RJ6801D677 | MCR03EZPJ682 6.8KOHM 5% 1/1 |
| | | R6019 | 0RJ6801D677 | MCR03EZPJ682 6.8KOHM 5% 1/1 |
| | | R6020 | 0RJ6801D677 | MCR03EZPJ682 6.8KOHM 5% 1/1 |
| | | R6021 | 0RJ6801D677 | MCR03EZPJ682 6.8KOHM 5% 1/1 |
| | | R6025 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R6027 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R606 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R608 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R609 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R610 | 0RJ1000D677 | MCR03EZPJ101 100OHM 5% 1/10 |
| | | R611 | 0RJ1002D677 | MCR03EZPJ103 10KOHM 5% 1/10 |
| | | R615 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R616 | 0RJ4702D677 | MCR03EZPJ473 47KOHM 5% 1/10 |
| | | R663 | 0RJ0000D677 | MCR03EZPJ000 0OHM 5% 1/10W |
| | | R681 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R682 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R683 | 0RJ0222D677 | MCR03EZPJ220 22OHM 5% 1/10W |
| | | R693 | 0RJ0822D677 | MCR03EZPJ820 82OHM 5% 1/10W |
| | | R694 | 0RJ0822D677 | MCR03EZPJ820 82OHM 5% 1/10W |
| | | R505 | 0RN1002F409 | RN-96T1F10K0 10KOHM 1% 1/6W |
| OTHERS | | | | |
| | | X501 | 6212AB3004D | CSALF2M69G4ZF01-A3 2.696MHZ |
| | | TU2 | 6634D00016A | TASA-H401F LG INNOTEK 75 OH |
| | | X201 | 6202VDT002H | SX-1 18.432MHZ 30PPM 18.432 |
| | | X202 | 6202VDT002H | SX-1 18.432MHZ 30PPM 18.432 |
| | | X502 | 6212AB2015A | HC-49/SM4H 4MHZ 30PPM 4MHZ |
| | | X503 | 6202TST001E | SX-1 24MHZ 30PPM 24MHZ 30PP |
| CONTROL BOARD | | | | |
| | | SW101 | 140-313B | KPT-1115AM 1C1P 12VDC 0.05A |
| | | SW102 | 140-313B | KPT-1115AM 1C1P 12VDC 0.05A |
| | | SW103 | 140-313B | KPT-1115AM 1C1P 12VDC 0.05A |
| | | SW104 | 140-313B | KPT-1115AM 1C1P 12VDC 0.05A |
| | | SW105 | 140-313B | KPT-1115AM 1C1P 12VDC 0.05A |
| | | SW106 | 140-313B | KPT-1115AM 1C1P 12VDC 0.05A |
| | | SW107 | 140-313B | KPT-1115AM 1C1P 12VDC 0.05A |
| | | SW108 | 140-313B | KPT-1115AM 1C1P 12VDC 0.05A |
| | | R101 | 0RH2702D622 | MCR10EZHJ273 27KOHM 5% 1/8W |
| | | R102 | 0RH2702D622 | MCR10EZHJ273 27KOHM 5% 1/8W |
| | | R103 | 0RH8201D622 | MCR10EZHJ822 8.2KOHM 5% 1/8 |
| | | R104 | 0RH8201D622 | MCR10EZHJ822 8.2KOHM 5% 1/8 |
| | | R105 | 0RH2401D622 | MCR10EZHJ242 2.4KOHM 5% 1/8 |
| | | R106 | 0RH2401D622 | MCR10EZHJ242 2.4KOHM 5% 1/8 |
| | | R107 | 0RH9100D622 | MCR10EZHJ911 910OHM 5% 1/8W |
| | | R108 | 0RH9100D622 | MCR10EZHJ911 910OHM 5% 1/8W |
| | | ZD101 | 0DZ510009EE | UDZS5.1B 5100MV 4.98TO5.2V |
| | | ZD102 | 0DZ510009EE | UDZS5.1B 5100MV 4.98TO5.2V |
| INDEX BOARD | | | | |
| | | C101 | 0CH3104K566 | 0805B104K500CT 100n 10% 50V |
| | | C107 | 0CH3104K566 | 0805B104K500CT 100n 10% 50V |
| | | C110 | 0CH3104K566 | 0805B104K500CT 100n 10% 50V |
| | | C112 | 0CH3104K566 | 0805B104K500CT 100n 10% 50V |
| | | L101 | 0LC2232101A | FI-D3216-223KJT 22UH 10% - |
| | | L103 | 6210TCE001G | HH-1M3216-501JT 500OHM 3.2X |
| | | L104 | 6210TCE001G | HH-1M3216-501JT 500OHM 3.2X |
| | | Q101 | 0TR387500AA | 2SC3875S NPN 5V 60V 50V 150 |
| | | R101 | 0RH1101D622 | MCR10EZHJ112 1.1KOHM 5% 1/8 |
| | | R102 | 0RH5100D622 | MCR10EZHJ511 510OHM 5% 1/8W |
| | | R103 | 0RH1001D622 | MCR10EZHJ102 1KOHM 5% 1/8W |
| | | R104 | 0RH1001D622 | MCR10EZHJ102 1KOHM 5% 1/8W |
| | | R136 | 0RH0000D622 | MCR10EZHJ000 0OHM 5% 1/8W 2 |
| | | R139 | 0RH4701D622 | MCR10EZHJ472 4.7KOHM 5% 1/8 |
| | | R141 | 0RH1002D622 | MCR10EZHJ103 10KOHM 5% 1/8W |
| | | R142 | 0RH1002D622 | MCR10EZHJ103 10KOHM 5% 1/8W |
| | | D101 | 0DLAU0410AA | SAW5670 ROUND 5mm AMBER/WHI |
| | | D102 | 6301900003A | LED INDEX WHITE 3V 20MA 80M |



THE Δ SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. PLEASE READ ELECTRICAL SHOCK INSTRUCTIONS WHEN SERVING UP IT. ESSENTIAL THAT ONLY MANUFACTURED SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE Δ SYMBOL MARK OF THE SCHEMATIC.

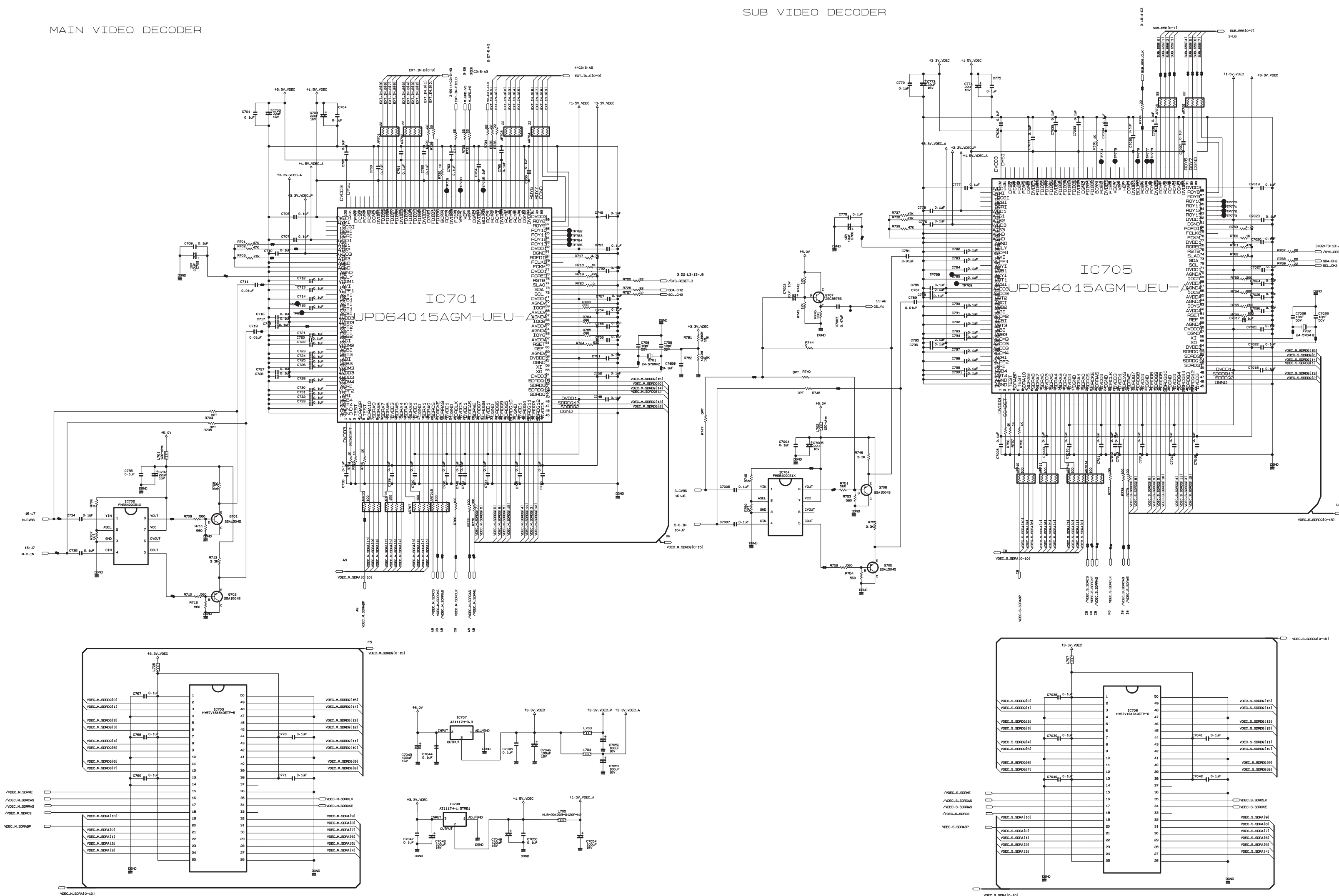
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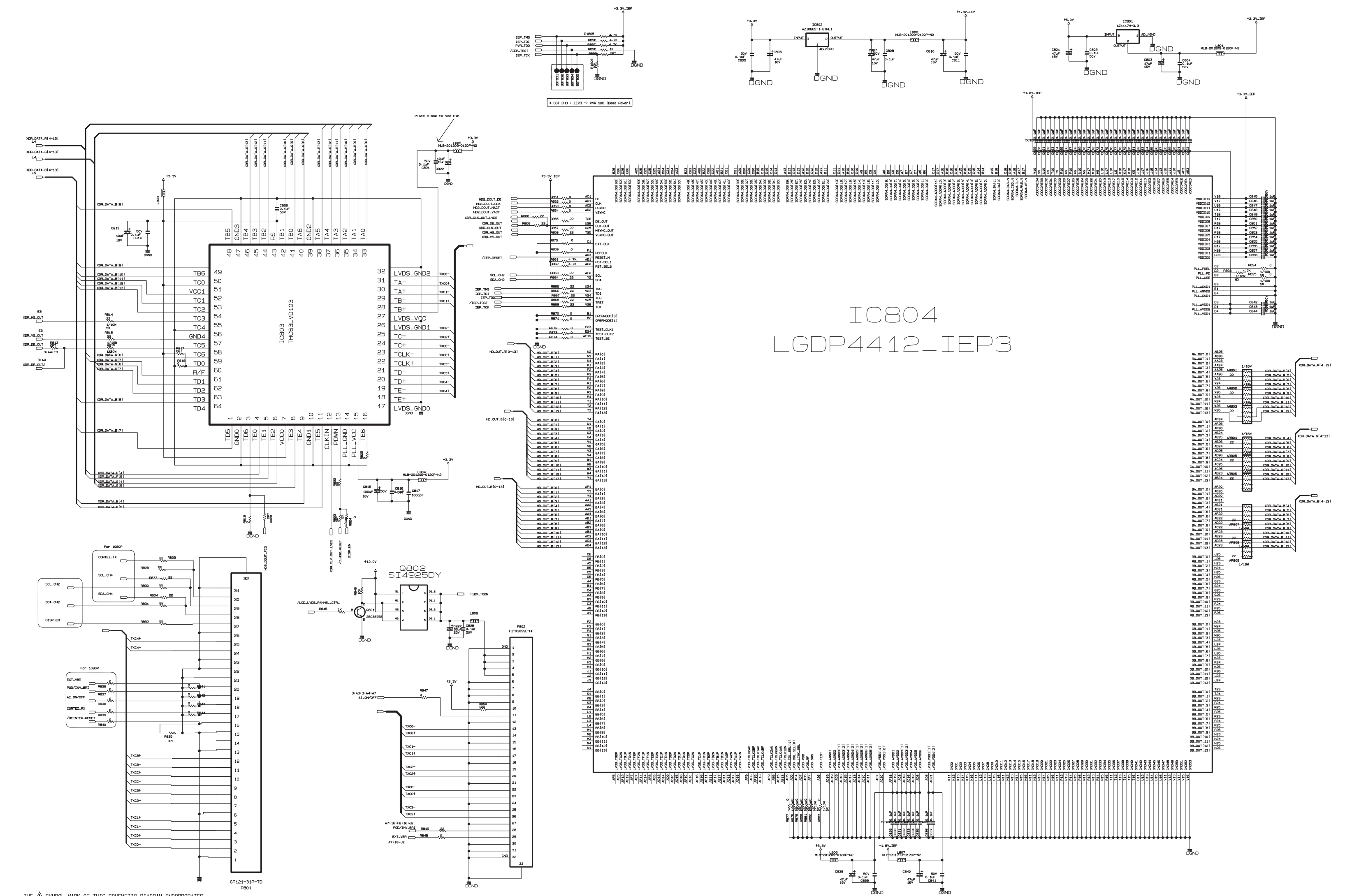
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MAIN VIDEO DECODER



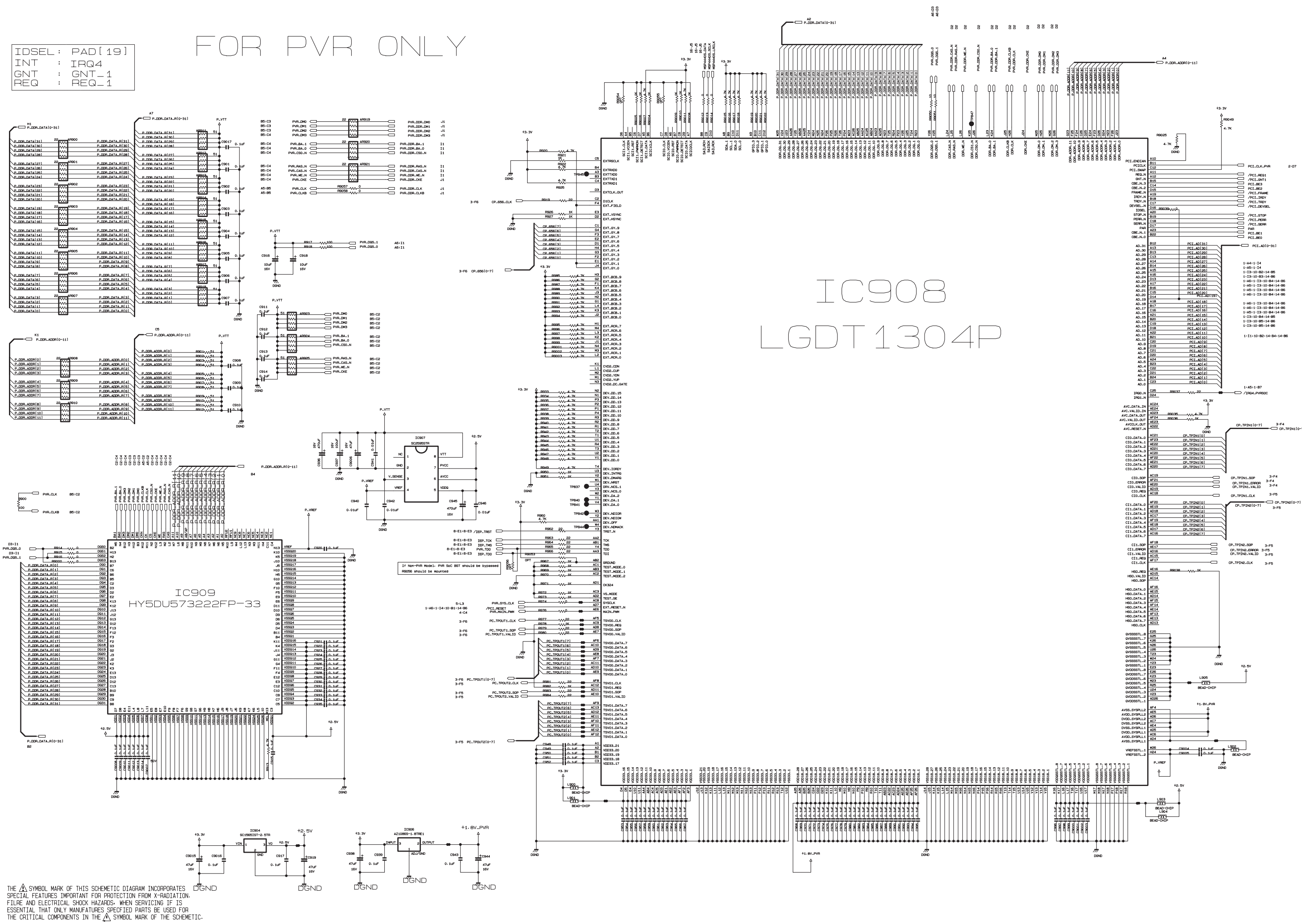
THE SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM RADIATION. PLEASE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVING UP IT IS ESSENTIAL THAT ONLY MANUFACTURER SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SYMBOL MARK OF THE SCHEMATIC.

SUB VIDEO DECODER

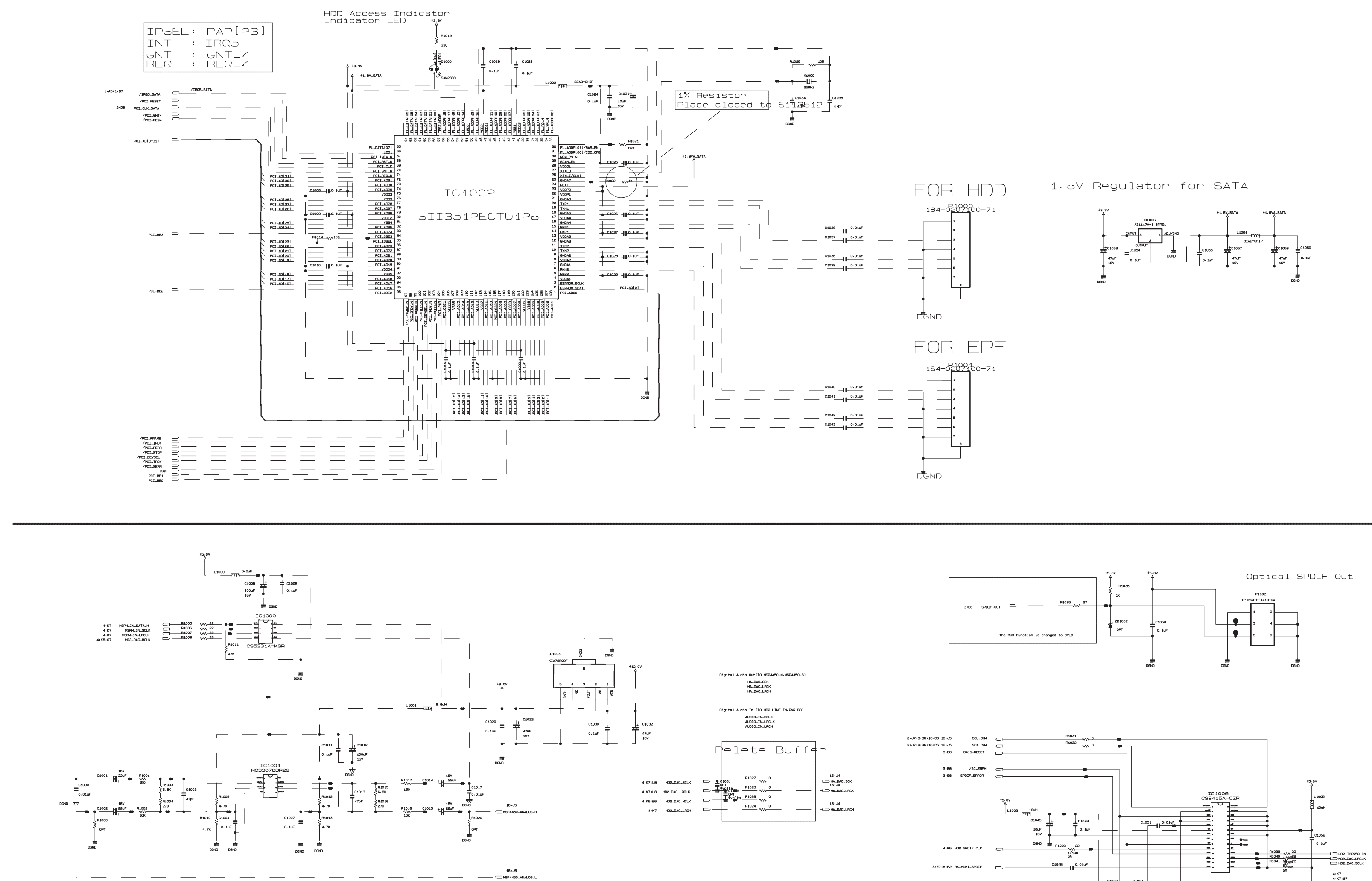


THE SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM RADIATION. PLEASE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVING UP IT IS ESSENTIAL THAT ONLY MANUFACTURER SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SYMBOL MARK OF THE SCHEMATIC.

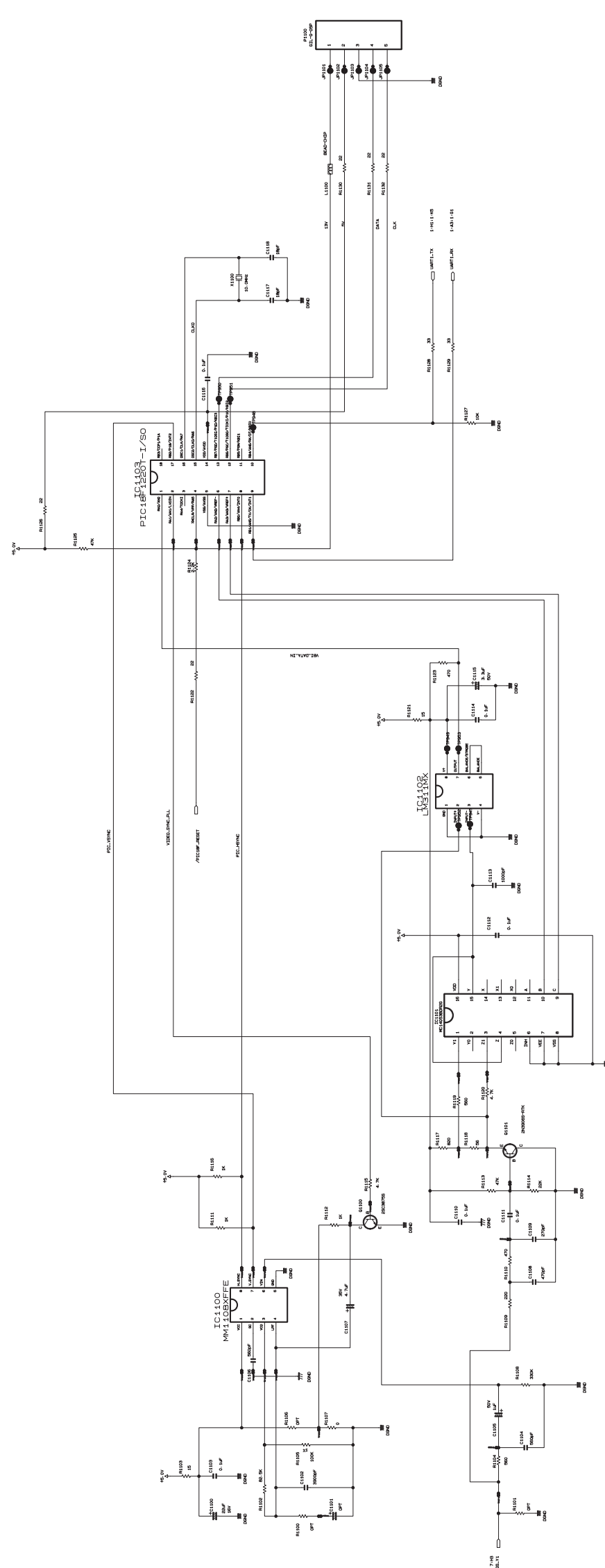
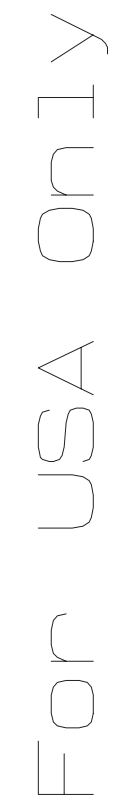
FOR PVR ONLY



THE SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION, FIRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING OF IS ESSENTIAL THAT ONLY MANUFACTURER SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SYMBOL MARK OF THE SCHEMATIC.

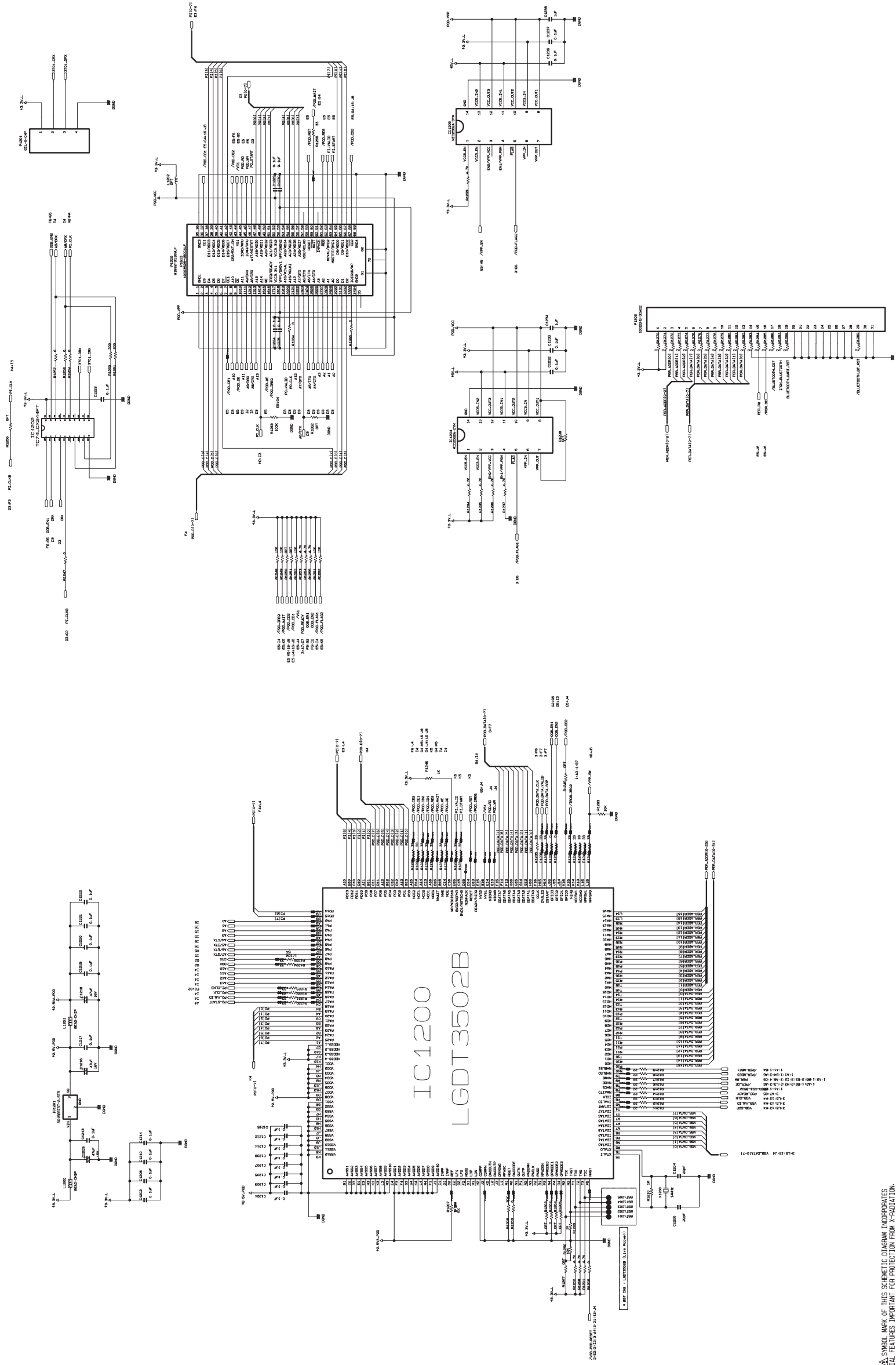


THE Δ SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILTRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTURERS SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE Δ SYMBOL MARK OF THE SCHEMATIC.



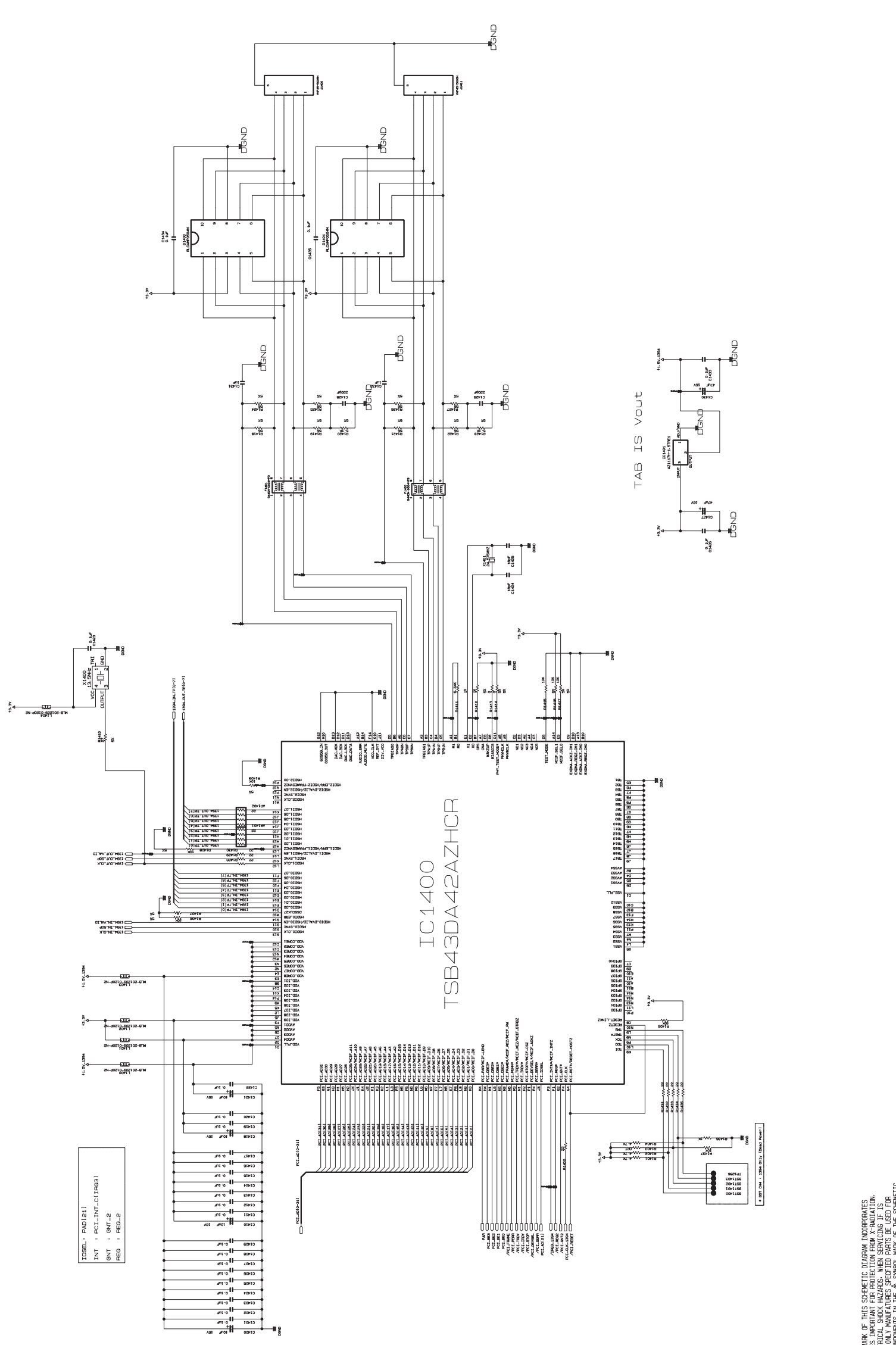
THE Δ₁ SYMBOL MARK OF THIS SOCIETY'S CHEMICAL INDUSTRIES SPECIAL FEATURES DIVISION FOR IDENTIFICATION FROM 8-042(1)26-2-2000. ALL OTHERS ARE NOT TO BE USED FOR IDENTIFICATION. THE Δ₁ SYMBOL MARK OF THIS SOCIETY'S CHEMICAL INDUSTRIES SPECIAL FEATURES DIVISION FOR IDENTIFICATION FROM 8-042(1)26-2-2000. ALL OTHERS ARE NOT TO BE USED FOR IDENTIFICATION.

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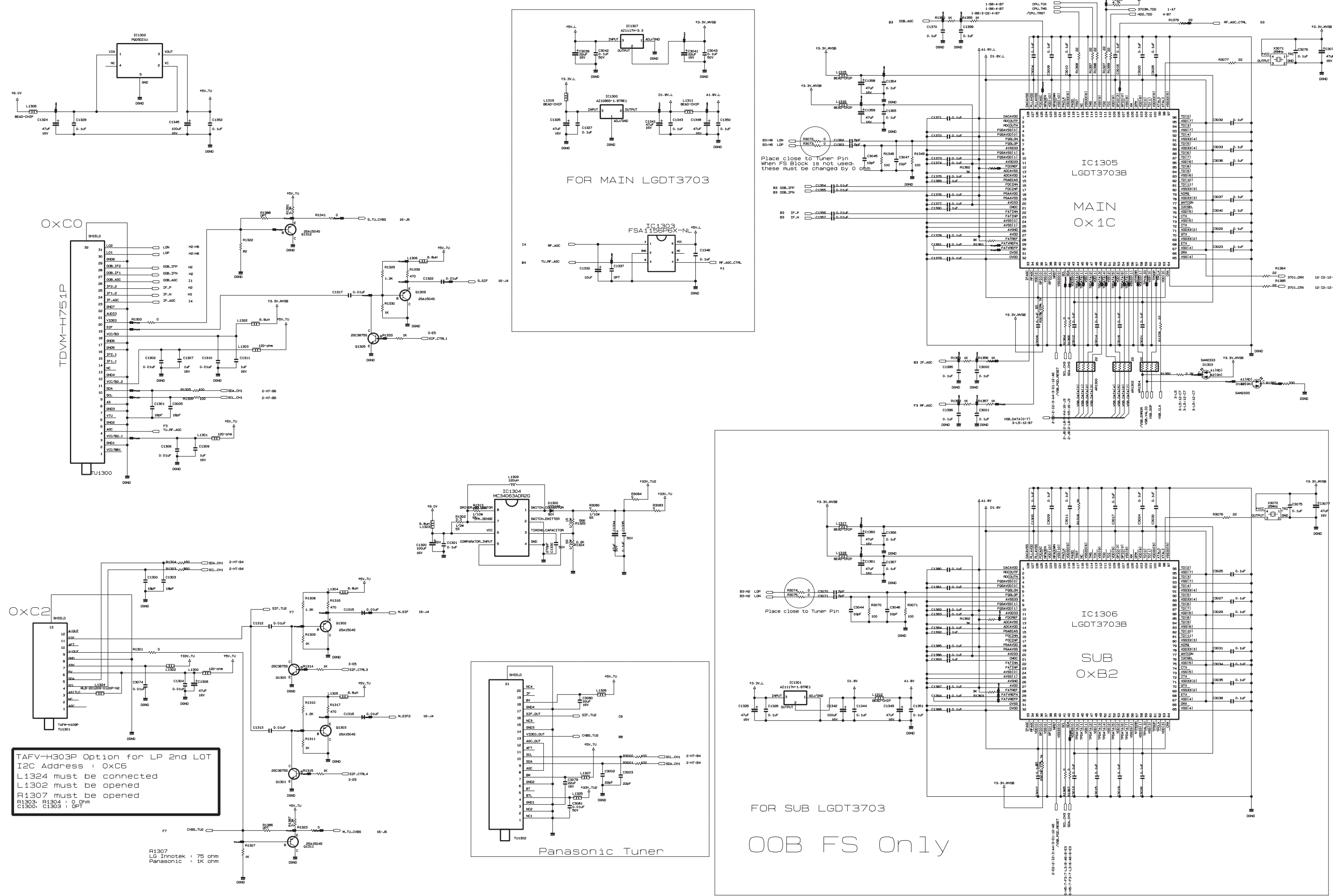


THE A-SERIES, MADE OF TENS OF THOUSANDS OF MICROGRANULES, IS A SPECIAL TYPE OF POLYMER. IT IS A POLYMER WITH A SPECIAL STRUCTURE, WHICH MAKES IT POSSIBLE TO PROTECT IT FROM OXIDATION, HUMIDITY AND ELECTRICAL SHORT CIRCUITS. WHEN HEATING UP, IT BECOMES LIQUID AND CAN BE USED FOR COATING SURFACES. IT IS A POLYMER MADE OF THE POLYMERIZATION OF ETHYLENE AND VINYL CHLORIDE. IT IS A POLYMER MADE OF THE POLYMERIZATION OF ETHYLENE AND VINYL CHLORIDE.

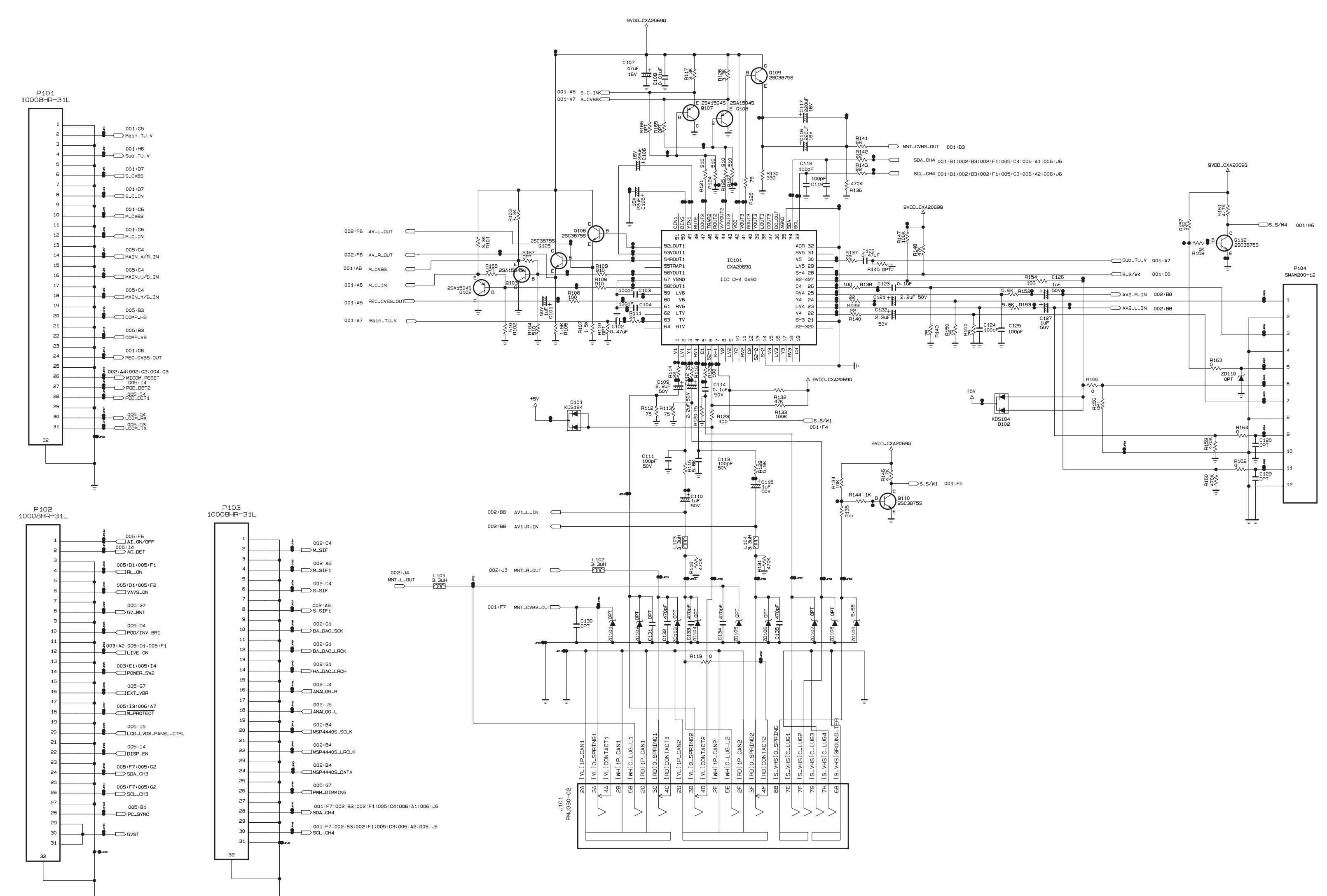
For Korea Only



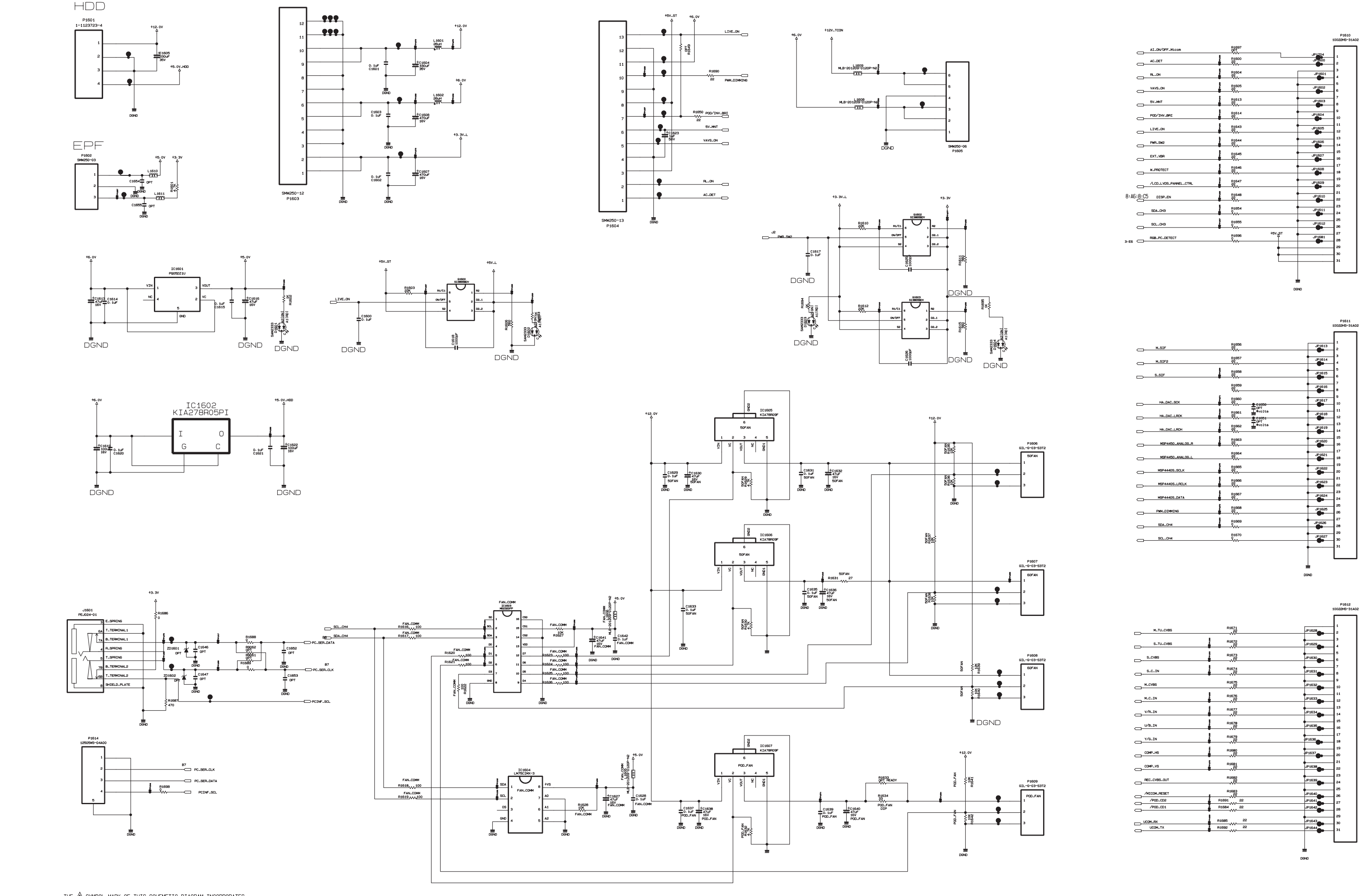
The Δ symbol, when it is this symbol, is usually incorporated into special features intended for protection from falsification. Unlike and electrical shock hazards, when combining it is essential that only manufacturers protected parts be used for critical components in the Δ symbol, mark of the trademark.



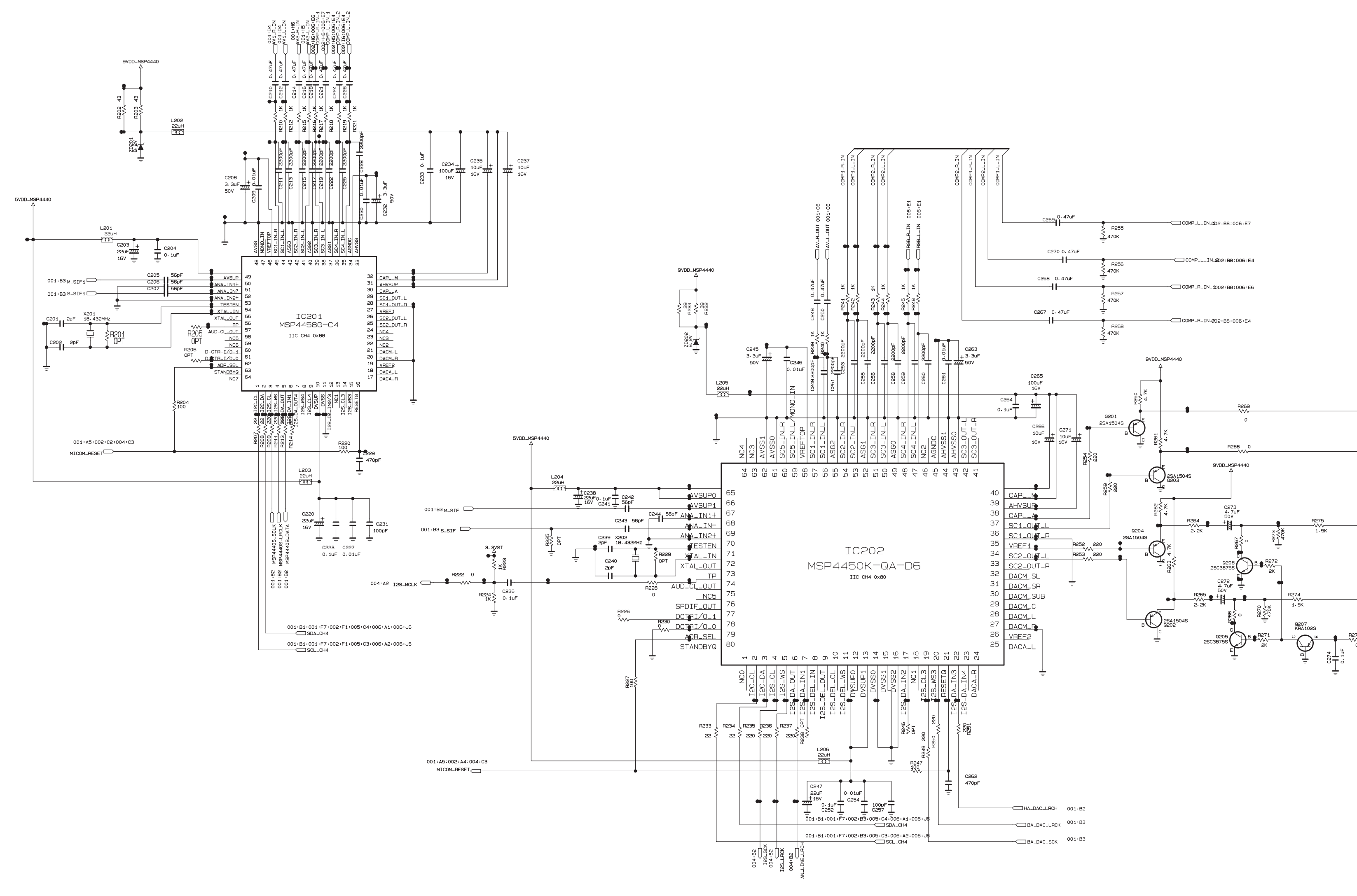
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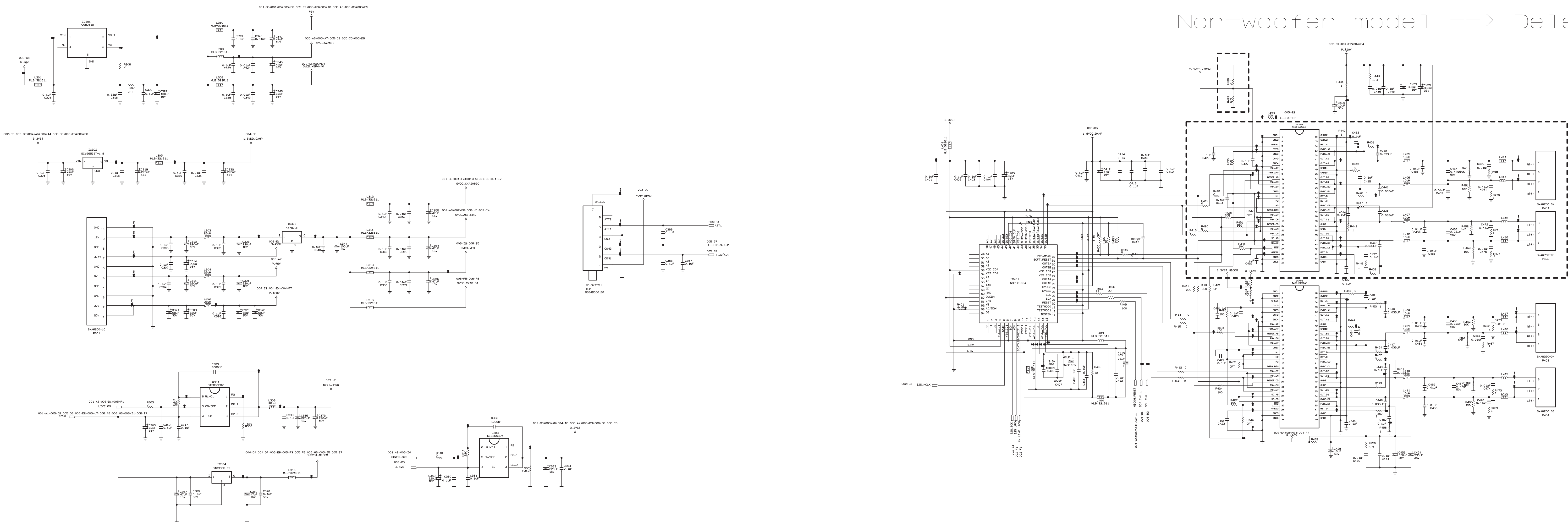


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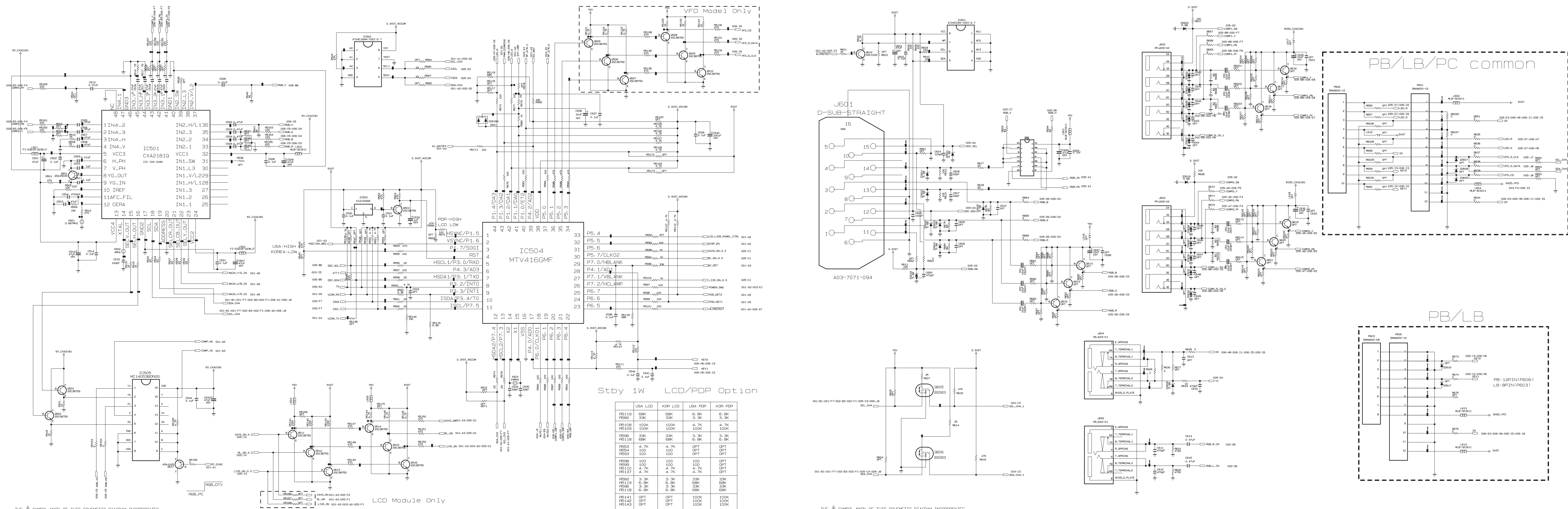
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Non-woofer model --> Delete



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P/NO : 38289S0043Y

Feb, 2006
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